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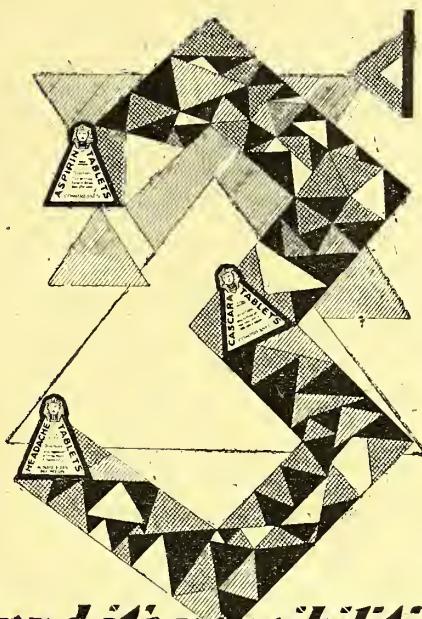
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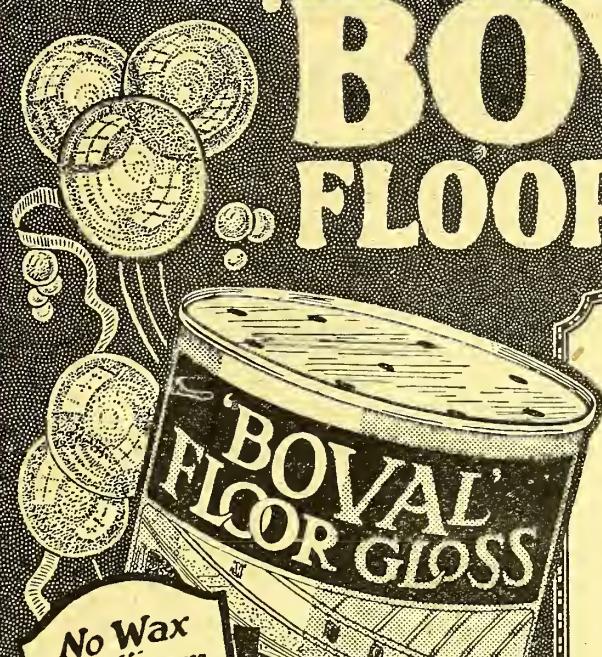
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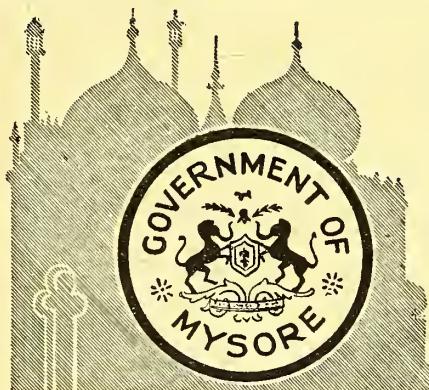
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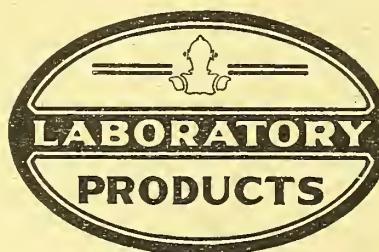
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HOT WATER BOTTLES

FINEST GREY RUBBER

	8 x 6 each	10 x 6 each	10 x 8 each	12 x 6 each
Singles . . .	3/3	3/6	4/-	3/9
1 dozen Assorted	3/2	3/5	3/11	3/8
3 dozen Assorted	3/1	3/4	3/10	3/7
	12 x 8 each	12 x 10 each	14 x 8 each	14 x 10 each
Singles . . .	4/6	5/6	5/2	6/-
1 dozen Assorted	4/5	5/5	5/1	5/11
3 dozen Assorted	4/4	5/4	5/-	5/10

Chemist's own name moulded on three dozen lots.

FINEST RED RUBBER

	10 x 8 each	12 x 8 each	12 x 10 each
Singles . . .	4/6	5/2	6/3
1 dozen . . .	4/5	5/1	6/2
3 dozen . . .	4/3	4/11	6/-

MOULDED (Red Rubber) BOTTLES

	2-quart—10 x 7 each	3-quart—11 $\frac{1}{4}$ x 7 $\frac{1}{2}$ each
Singles . . .	5/-	5/6
1 dozen . . .	4/11	5/5
3 dozen . . .	4/9 $\frac{1}{2}$	5/3 $\frac{1}{2}$

Special quotations for 6 and 12 dozen quantities.

Get a sample and compare quality for price

DISPLAY—Is there anything more difficult to put on show than a Hot Water Bottle? You are dealing with expensive units, and the risk of spoilage by sun and dust is considerable. A rubber bottle falls "all of a lump" in the window and looks an untidy mess—certainly not an inducement for the public to stop and look. None of the rules of display can be followed—unless you have Ayrton's three-panel display screen, which needs only one Hot Water Bottle to make a "stop-the-people" Window Show.

AYRTON, SAUNDERS & CO., LTD.

"Everything Pharmaceutical"

LIVERPOOL



RETURN OF THE OLD **Lysol** AT THE OLD PRICE



Manufactured as previously under the personal control of Dr. Paul Flemming who for 20 years was Chief Works Chemist to Lysol-Fabrik, Schülke & Mayr, Hamburg.

THE very high standard of efficiency established by the Lysol we introduced so many years ago has never been excelled, and the product we are now issuing conforms in every particular to that high standard. Doctors and Nurses have been asking for this product for a long time and you may expect a steady demand as it is being consistently advertised in both Medical and Nursing Journals.

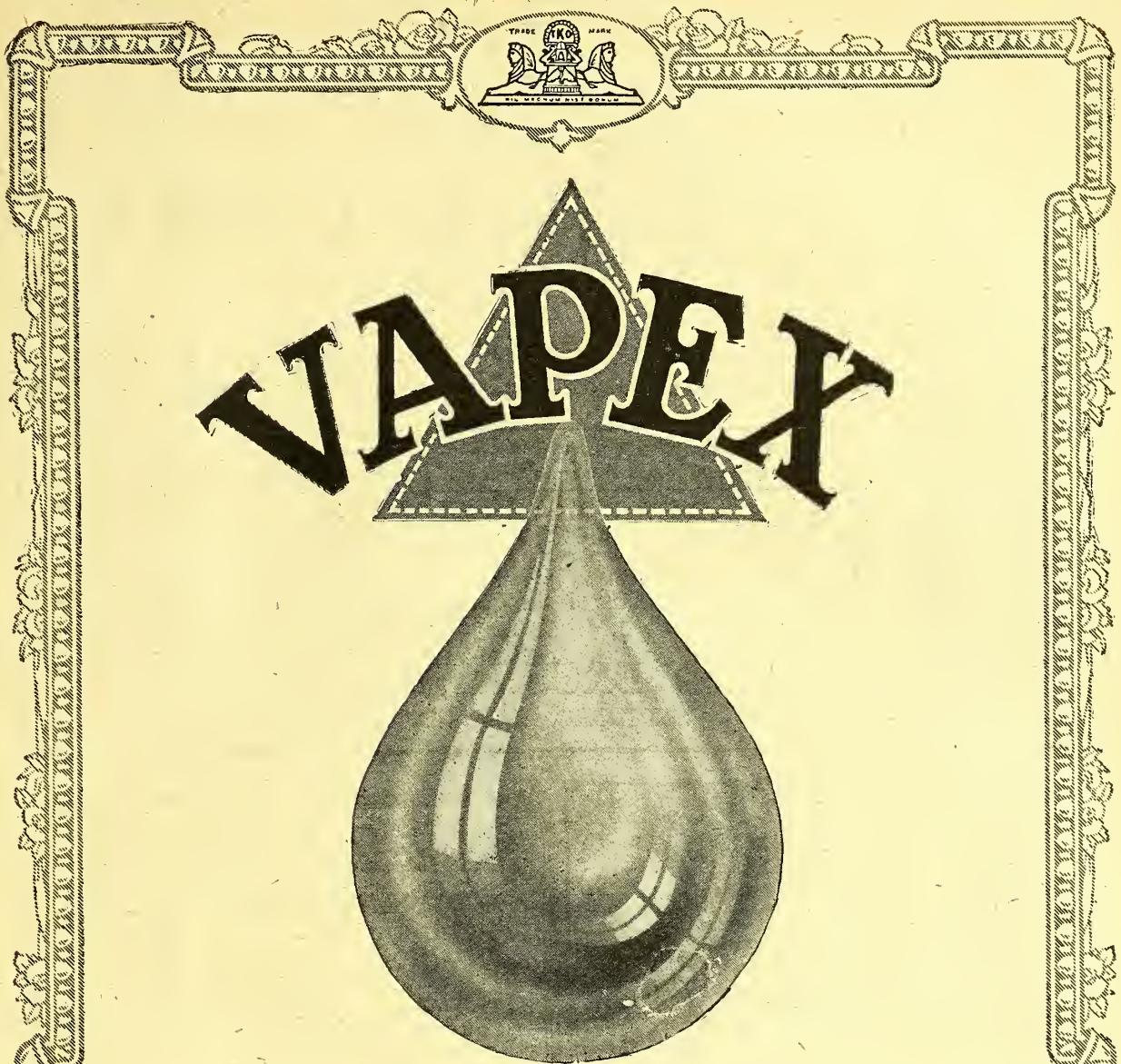
PRICES :		
Bottles.	Retail.	Wholesale.
4 oz.	7½d.	5/9 per doz.
8 oz.	1/-	9/6 ,
16 oz.	1/9	15/9 ,
32 oz.	3/-	28/- ,
1 gal.	12/6	10/- each.

Each bottle has a clearly marked aluminium measure affixed over the cork outside the wrapper. It makes an effective display.

ORDER THROUGH YOUR WHOLESALER.

CHAS. ZIMMERMANN & CO. (Chems.), LTD.

9-10 St. Mary-at-Hill, LONDON, E.C.3.



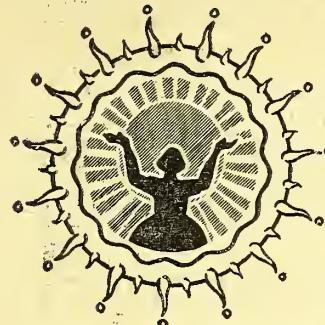
The Magic Drop Display

Please write for full particulars of the new "Vapex" window-show, the four-page circular (carrying your own name and address) for distribution to your customers, and the special display terms

THOMAS KERFOOT & CO LTD
BARDSTLE VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

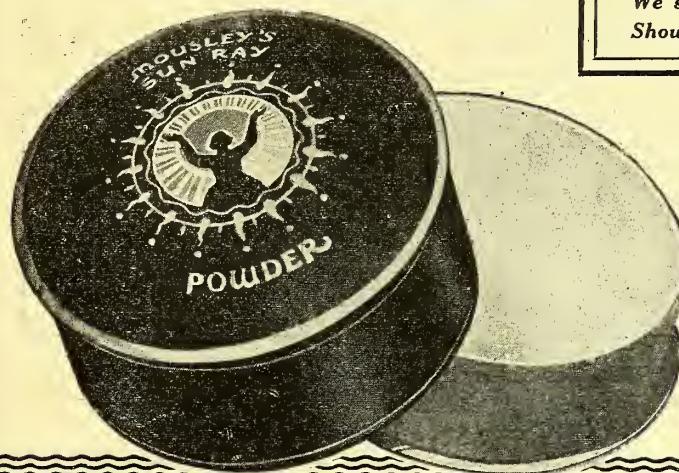
B/564

COPYRIGHT



This Seal appears on all brands of Mousley products comprising the "SUN RAY" SERIES.

Catalogue and trade terms of all Mousley lines sent on application



CHEMICAL WORKS "FLORA"

DUBENDORF, ZURICH - SWITZERLAND.

Manufacturers of

ARTIFICIAL MUSKS 100%

AMBRETTE KETONE XYLOL

The "Flora" Musks are the essence of perfection, and striking examples of a factory with a large reputation for quality.

LONDON STOCKS

Samples and Prices from—

CHAS. ZIMMERMANN & CO. (Chemicals), LTD.
33 St. Mary-at-Hill, London, E.C.3

"SUN RAY" Powder

as illustrated, is treated by the special "Sun Ray" process—which ensures complete hygiene—and is as delicate and subtle in aroma as in texture. "SUN RAY" powder is sealed in Celophane box immediately after receiving the Ultra Violet Ray treatment.

We shall be pleased to welcome you in our Showrooms at 38 Old Bond Street, W.1

The "SUN RAY" SERIES is manufactured by

**FRANK
MOUSLEY**

of 38 Old Bond Street, W.1

Laboratory and Factory:

Wilderness Works, East Sheen

Sole Distributors:

Ruskin Dawney & Co., Ltd.
of 38 Old Bond Street - LONDON, W.1

THE ORIGINAL
:: :: AND :: ::
STILL THE BEST

JACKEL'S
* CREAM *
WITHOUT GREASE
FOR THE HAIR
SOLD EVERYWHERE.

1/9 PER BOTTLE 2/6

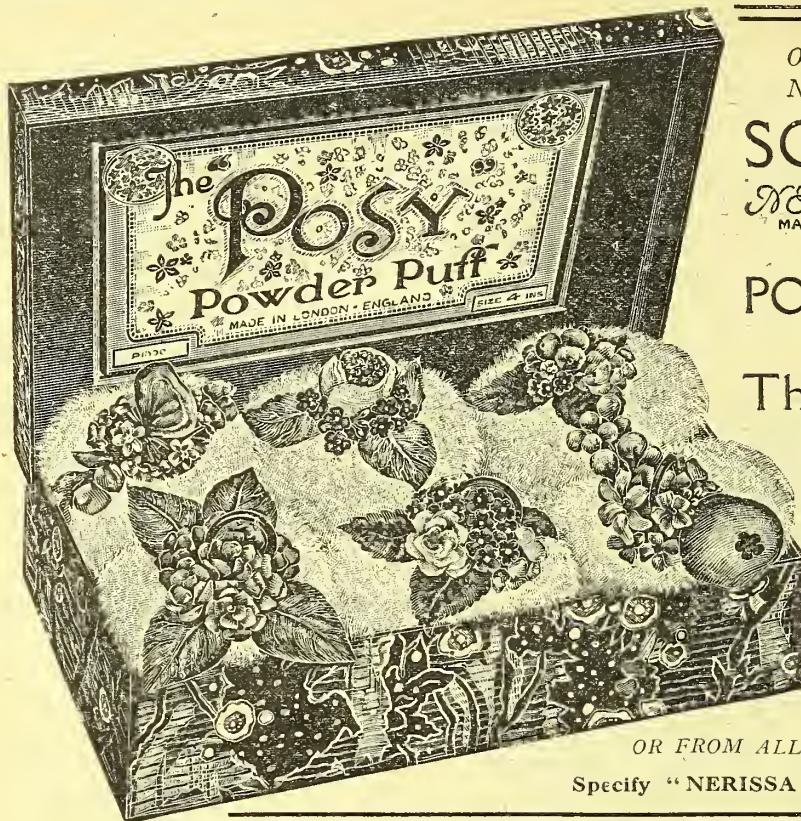
Jackel's Cream has now been over 40 years on the market and enjoys a steady reliable sale. Once a customer buys Jackel's, imitations have no appeal because Jackel's is still the best.

HOW ARE YOUR STOCKS AT PRESENT?

12/- and 18/- per dozen.
Retailing at 1/9 & 2/6 per bot.

SHOWCARDS AND PARTICULARS FROM
YOUR WHOLESALE HOUSE.

JACKEL et CIE (of Paris) Ltd.
GLASGOW.



ONE OF THE MANY
NEW ADDITIONS TO

SOLPORTS'
NERISSA^{Regd} **MADE IN ENGLAND** **SERIES**
OF
POWDER PUFFS

The "Posy" Puff

(SIX IN A SHOW BOX)

No.	Size	Retail Price Each	Trade Price Dozen
P.1000	3½-in.	2/-	16/-
"	4-in.	2/6	20/-
"	4½-in.	3/-	24/-

ORDER DIRECT

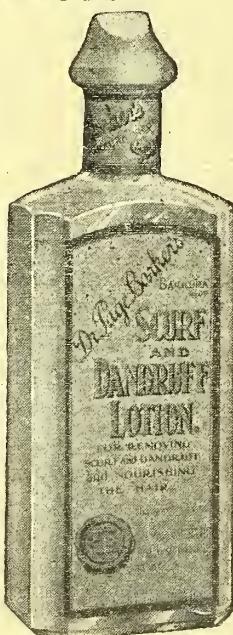
OR FROM ALL LEADING WHOLESALERS,

Specify "NERISSA" Brand.

**Dr. Page-Barker's
Scurf Lotion**

THE specific recognised throughout the Trade as the one genuine and reliable remover of Scurf and Dandruff. Every bottle carries a guarantee. 18/- per dozen, retail at 2/6. With an order of three dozen you get a free bonus of three 2/6 bottles, also an attractive showstand. Smart show matter. Leaflete with your own name.

THOS. CHRISTY
& CO.
4, Old Swan Lane,
Upper Thames St.,
E.C.4.



**Hitch your
waggon
to a**



Chemists and Druggists who have definite progress to report are those who have profited by the ever-growing demand for Gibbs Toilet Preparations. Each succeeding year shows an upward bound in sales. And every advance is supported by an increased volume of advertising, which again still further increases sales.

Greatly increased advertising—greatly increased sales. Result—greatly increased profits.

Stock—Display and Sell—

★ *Gibbs*

TOILET PREPARATIONS

D. & W. GIBBS LTD. (Dept. D.G.t)
CITY SOAP WORKS, LONDON, E.1

DON'T FORGET THIS

□ □ □

EVERY ARMAND Item can be sold with the guarantee that if the purchaser is not completely satisfied she may have her money refunded by you. We will look after the rest.

Send to-day for price list and particulars of the Armand Policy. It will pay you to take an interest in Armand.

□ □ □

Florian & Armand, Limited

QUEENSWAY, FONDERS END, MIDDLESEX

You will be asked for—

RETAIL

POWDERED CEROLIN 2/-

For making Face Cream

LAITINE POWDER 1/6

Face Powder. 3 shades

BENZONE CRYSTALS 1/6

For Blackheads

CHLORONE PELLETS 1/-

For Halitosis

CITRATE OF CAPROL 3/-

For the Hair

PERU PASTE 2/-

For Wrinkles

**BUTYWAVE
PERFUME 3/- 5/- 10/-**

They bear big profits. Order through your wholesaler. Made by The Butywave Co.,
10 Tachbrook Street, S.W.1

DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP ..	10/-	1/-
A complexion soap.		
PROLACTUM ..	10/-	1/-
For the lips.		
PARSIDUM JELLY ..	10/-	1/-
For wrinkles.		
ALLACITE OF ORANGE BLOSSOM ..	22/6	2/6
A dressing cream.		
BORANIUM ..	22/6	2/6
A hair tonic.		
CLEMINITE ..	22/6	2/6
For a face lotion.		
COLLIANDUM ..	22/6	2/6
For a face tint.		
PERGOL ..	22/6	2/6
A deodorant.		
TEKKO PASTE ..	22/6	2/6
Camphor cream.		
STALLAX ..	13/6 { 22/6	1/6 2/6
For a shampoo.		
JETTALINE ..	31/6	3/6
For clearing the skin.		
PHEMINOL ..	36/-	4/-
A depilatory.		
MENNALINE ..	36/-	4/-
For the eyelashes.		
MERCOLIZED WAX ..	18/- 31/6	2/- 3/6
A face cream.		
STYMOL ..	36/-	4/-
For oily complexions and blackheads.		
SILMERINE ..	22/6	2/6
Hair-curling fluid.		
BARSYDE ..	22/6	2/6
Dandruff eradicator.		
TAMMALITE ..	22/6	2/6
For grey and faded hair.		
LIQUID PERGOL ..	31/6	3/6
To check excessive perspiration locally.		
BICROLUM ..	22/6	2/6
For whitening the hands.		
COCONOIDS ..	31/6	3/6
For figure development.		

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES ..	36/- 58/6	4/- 6/6
For obesity.		
SOFT PALERIUM ..	45/-	5/-
For wrinkles.		
LIQUID NAIL POLISH ..	10/-	1/-
Brilliant and lasting.		

Stocked by ALL Wholesale Houses.

COLONIAL DEPOTS AND AGENCIES.

Australia: ALI, WHOLESAILERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.
South Africa: LENNON, Ltd., Cape Town, etc.
SIVE BROS. & KARNOVSKY, Johannesburg.
India: FRAMJEE & SON, Bombay,
A. I. CHOURDY, Calcutta.
New Zealand: SHARLAND & CO., Auckland and Wellington.
South America: DEARBORN (South America) Ltd., Calle Pavon 2100, Buenos Aires.
Straits Settlements & Federated Malay States: MEDICAL HALI, Ltd., Singapore.

"LEONA" BEST SELLERS

A NEW
3d. LINE

BEAUTIFULLY PACKED
IN
3 DOZ. SHOW OUTERS

EVERY BOX A
WORK OF ART

THE FINEST
VANISHING CREAM IN
THE BEST GET-UP
AT THE
CHEAPEST PRICE

SAMPLE 3 doz. BOX
POST FREE
ANYWHERE for P.O. 5/-



PRICE LIST

(Any Leona Lines may be
included to make up order)

LEONA CREME
DE BEAUTE 20/- per
gross

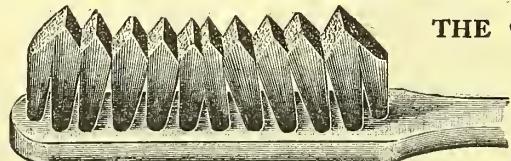
TRADE DISCOUNTS

\$2 lots	-	-	less 2½%
\$5 "	-	-	5%
\$10 "	-	-	10%

Cash Discount, 5% cash
in 7 days

WRITE FOR LIST

A. S. PRICE & CO. LTD., BLACKHEATH, BIRMINGHAM

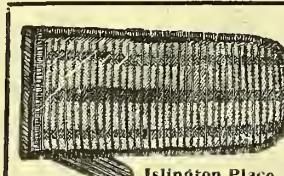


A QUICK SELLER. TRY IT!
THE "ODENTIC TWO-WAY" Regd. TOOTH BRUSH

has its tufts of **PURE BRISTLES** so arranged that it offers the maximum resistance in brushing in both directions. Made by a firm with 100 years' experience.

Two sizes: GENTS. (4 Rows); LADIES, (3 Rows).
Small Show-card with every 12-dozen.

Manufacturers: **W. R. SPEER & SON**, 215 Dalston Lane, London, E.8
Obtainable from all Wholesalers.



Specialists in the Manufacture of—
HORSEHAIR FLESH GLOVES, BATH GLOVES &c.
Wholesale and Export.
LAWRENCE & CO.
Islington Place, Cludesley Road, London, N.1.

Telephone: Axminster 5.

Telegrams: "Coate, Axminster."

COATE & CO. (Axminster) Ltd.

The London Brush Works, Axminster, Devon.

Estab. 1847.

Manufacturers of Super British Brushes

Our Special "PROPHYLACTIC" Tooth Brushes—

3 row Hard, Medium, Soft, Yellow Hair @ 16/- per dozen
4 " " " " " " " " " " " " 18/- " "

Orders for one gross supplied in Cartons with customer's name and address free.
Every Brush Guaranteed. British made by British Labour. Send for our present list of prices.

ONLY 14 MORE DAYS !

Sales are leaping daily. Darwin Blades are proving themselves the best in the world. Even now you must have experienced the growing demand. If you send for one of these display bonus parcels the show material will multiply your sales at once.

No. 1

75 Gillette Pattern Blades	230 Gillette Pattern Blades
20 Auto-Strop „ „	120 Auto-Strop „ „
5 Ever-Ready „ „	25 Ever-Ready „ „

No. 2

455 Gillette Pattern Blades
120 Auto-Strop „ „
25 Ever-Ready „ „

No. 3

120 Auto-Strop „ „
25 Ever-Ready „ „

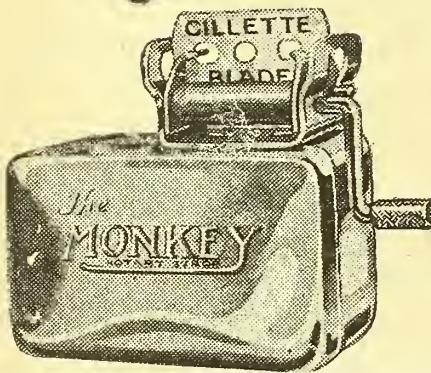
Darwin
PATENT COBALT HIGH SPEED STEEL
Safety Razor Blades

Make your application to-day and take advantage of the demand which is being created by our great National Advertising Campaign.

DARWINS, LTD., FITZWILLIAM WORKS, SHEFFIELD.

SPECIAL BONUS OFFER

it will
Pay
you to sell
more
MONKEY
STROPS



Open until
November 30th

Until November 30th we are offering one D.P. Bobber and one Douglas Pruner FREE with every dozen order of the Monkey Strop. With every half-dozen order we offer one D.P. Bobber or one Douglas Pruner. Two attractive showcards and advertising leaflets are provided with the dozen order and one showcard and leaflets with the half dozen. In both cases your profit works out at approximately 62½% on cost.

Will you sell more Monkey Strops and introduce the D.P. Bobber (Ladies' Home Hair Bobber) and the Douglas Pruner (The Home Haircutter for Men) at our expense? All three are lines which provide good value for the public and bring handsome profits for you. Increased advertising backs you up and creates sales. MONKEY STROPS cost 45/- doz., retail at 5/6 each. Sent Carriage Paid (6 and over). Send your Orders NOW to your usual wholesaler or direct to—

MONKEY
PATENT
STROP

DOUGLAS KIRBY & CO., LTD.

(Dept. C.D.) 9/10 CHARING CROSS, LONDON, S.W.1.

Telephone: 8063/4/5 and 3147 Gerrard.

Works: GLOUCESTER.

HAVE YOU GOT
A STOCK OF **SOUPLEX**
SAFETY RAZOR BLADES?
If Not, You are Missing Profits

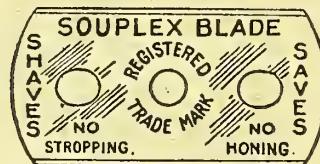
SOUPLEX are without doubt the finest Safety Razor Blade (Gillette pattern) the world produces, and every time you sell one you make a permanent customer.

Thousands of pounds are being spent this year to bring them before the notice of the public, and to show SOUPLEX Showcards means quick sales and good profits.

The sales of SOUPLEX have increased over 1,000 times in the past year, and every week they grow.

The profits on SOUPLEX are good and cannot be varied; no cutting is permitted; they sell to the public at 2/6 per packet of 10 and cost you 20/- per box of 120.

FROM GOOD WHOLESALE HOUSES
IN ALL PARTS OF COUNTRY.



WHOLESALEERS.

We supply SOUPLEX to wholesalers only, and every wholesaler who stocks them is sure of guaranteed profits; there is no difficulty in selling them, for your traveller to say SOUPLEX to a shopkeeper is to book business. We supply special showcards with dummy packets for travellers, and so prevent you losing samples and money.

If you have not yet got SOUPLEX write at once for prices and terms.

SOUPLEX LTD.

MORECAMBE, Lanc.

BUY BRITISH

The New Sheffield Steel

DARWIN

Safety Razor Blades

GILLETTE, AUTO-STROP & EVER-READY TYPES

Remember: They have
RUSTLESS EDGES

BONUS

Offers to Chemists for
30 days from Sept. 30th.

No. 1 Parcel £1 10 0 70 Gillette patt.
60 Auto patt.
10 Ever-Ready patt.

BONUS: 10 Gillette patt. Blades.

No. 2 Parcel £4 10 0 200 Gillette patt.
60 Auto patt.
40 Ever-Ready patt.

BONUS: 40 Gillette patt. Blades.

No. 3 Parcel £9 0 0 400 Gillette patt.
120 Auto patt.
80 Ever-Ready patt.

BONUS: 90 Gillette patt. Blades.

Applies only to British Isles and Irish Free State.



Sell at 5 for 2/3, 10 for 4/6

These prices will be strictly maintained.

Wholesale: 30/- box of 100

*Distinctive Window Show Material
with each Parcel. Send your order,
stating which parcel you require, to*

JOHN TIMPSON & Co., Ltd.

MEDICINAL AND CHEMIST SUNDRIES

106 Golden Lane

LONDON, E.C.1

PHONE:
CLERKENWELL 4778:

WIRES:
"POROUS BARB, LONDON."

Lower Prices

(3d. each retail)

Larger Turnover

(Sell 2 where you sold one)

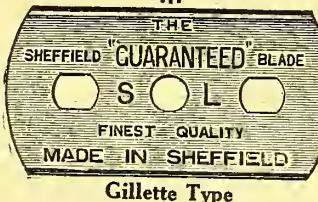
Greater Profits

(At least 56% for retailers)

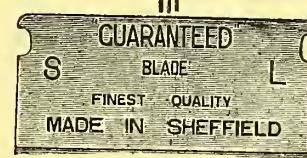
from

**SHEFFIELD
GUARANTEED.**

Blades



Gillette Type



"Valet" Type



Ever-Ready Type

From These Wholesalers :

E. H. Butler & Son, 93 Hum-
berstone Gate, Leicester.
Smith & Sons, 44/48 Magdalen
Street, Norwich.
Ryan, White & Co., Ltd., 31
High Street, Southampton.

*Wholesale Houses in Scotland, Wales, and the North
of England should write at once for terms to:—*

**G. SMITH, Sole Concessionnaire,
237 Mere Road :: Leicester.**



"Guaranteed"
Profits."

Are you British?

Then sell your
British Customers
British Blades!
The death knell of
the foreign blade is
being sounded, the
Customs Duty of
33½% is ringing its
doom. The foreigner
cannot keep up the
quality and bear
the duty—he can-
not raise the price,
therefore the blade
must suffer. Shef-
field now takes
the field with the
"Sheffield Guar-
anteed" Blade at 3d.
retail. Order some
to-day.

Bonus for YOU!

Sheffield "Guaranteed" Blades are
made in styles to
fit Gillette, "Valet,"
Clemak, Gem, and
Ever-Ready Razors.
They only cost you
25/- per gross, with
2½% special dis-
count on 3 gross,
5% on 5 gross, and
10% on 10 gross—
at LEAST 39%
profit for you!
Neat and attractive
showcards are sent
with all orders, and
a bonus of 12
blades is given
with every gross.

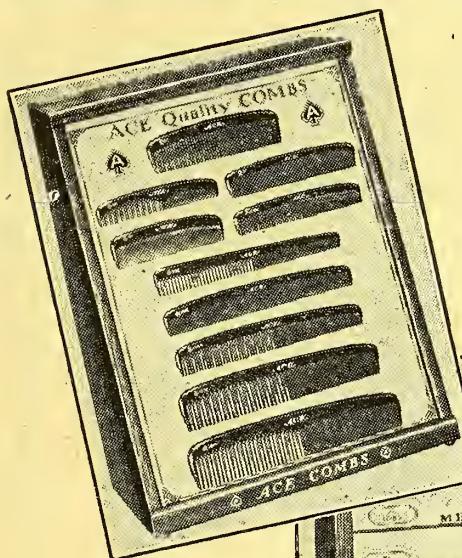
THE HOUSE THAT GIVES YOU SERVICE FOR FANCY GOODS

ADOLPH SCOTT, LTD.

23, 24, 25, 26 GREAT HAMPTON STREET,

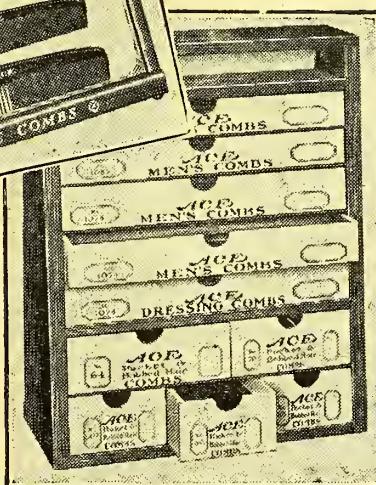
Telephone: NORTHERN 2102.

BIRMINGHAM



What it is

Each individual, strong, indestructible, well made and finished comb is protected by a stout, transparent envelope, and as will be seen from the illustration the handy arrangement of the stock facilitates rapid selling. Net price of Cabinet containing 10 doz. Combs £5.5s.



5 minutes or 30 seconds
—how long do YOU take to sell a comb?

TIME is money; anything, therefore, which makes for quick, easy sales will appeal to the live dealer. The tremendous demand for this new Ace Comb Cabinet proves that it is a very real sales aid. Although only on the market a very short time, it has been

universally welcomed as the most successful and rapid method of selling combs ever devised. It is enabling Chemists, Hairdressers and Toilet Houses throughout the country to supply the demand easily and quickly. Speed up your Comb sales with the Ace Comb Cabinet.

HARD RUBBER ACE COMBS

THE ACE COMB CABINET contains 1 dozen combs each.		
Code No.	Description	Retailing Total
288	Men's Combs	1/3 15 0
1035	" " "	1/4 16 0
1028	" " "	1/6 18 0
1074	Dressing Combs	1/4 16 0
1024	" " "	1/6 18 0
60	Bobbed Hair Combs	1/- 12 0
63	" " "	1/3 15 0
64	" " "	1/8 £1 0
70	" " "	1/- 12 0
3158	" " "	1/3 15 0
Total Retail Price ..		£7 17 0

AMERICAN HARD RUBBER CO.
(BRITAIN), LTD.

13a FORE STREET, LONDON, E.C.2.
Sole Distributors—PENNEY & CO., LTD.
16/18 BEAK STREET, REGENT STREET, W.1.

Collapsible Tubes



The main factor in production costs to-day which is dear, not cheap, is labour. We have minimised the incidence of this factor by equipping our Works with the most up-to-date labour-saving machinery, hence we are able to combine as low prices as any house in the trade with the very highest quality and finish and the other attributes of our service which have rendered our name famous throughout the world for our specialities.

Batts & Col.
1. Wharf Rd., City Rd.
London, N.1.

Established 1857.



will be sufficient proof that advertising in the "Christian Herald" pays. It goes into 250,000 homes every week, and every copy can be a Travelling Salesman for your goods. "Christian Herald" readers have confidence in the goods it advertises, for experience has taught them that their confidence is never abused.

250,000

Travellers working for you are bound to bring orders. The following letters from satisfied "Christian Herald" advertisers speak for themselves.

7,500 Cash Orders were received from Two Small Advertisements costing £13 10s.

A firm of Specialists write:—

"We have orders every day in response to advertisement in your paper."

A Manchester firm of Advertising Specialists write:—

"Our clients are again repeating their advertisement. Our experience of your paper proves that it is a Good Medium for Obtaining Results."

Special Treatment Institute, sending repeat order:—

"Test advertisement having Proved Satisfactory, I shall be pleased if you will repeat the advertisement for a further six insertions." The circulation has averaged 250,000 copies weekly for the last 20 years. Each copy being read by several persons, advertisements are seen by

A MILLION READERS.

Specimen copy and Rate Card on application to Advertising Manager.

The CHRISTIAN HERALD 6 TUDOR ST. LONDON, E.C.4.

CELLOPHANE

The ideal transparent wrapping absolutely harmless, air and grease proof, as used by all the leading Perfumers, Soap Manufacturers, etc., etc., for wrapping Soap, Drugs, Tablets, Bath Crystals, Perfumery, Surgical Dressings, Sponges, Puffs, Soothers, Tooth Brushes and all Articles of Toilet.

Cellophane can be had in sheets, all sizes and colours; also in the shape of Bags, Discs, Envelopes, printed or not, allowing the contents to be seen by transparency.

Cellophane wrapped goods look better—keep better—sell better.

Cellophane protects, beautifies and adds the quality touch.

Prices, Samples and Particulars from
The CELLOPHANE COMPANY
7, 8 and 9 Bird Street, LONDON, W.1

Also 305-7 PRODUCE EXCHANGE, MANCHESTER.
35 MILLER STREET, GLASGOW.

OVERALLS

for
Chemists & Druggists

Jackets and Coats of very superior quality, made from the most reliable materials, smartly cut and thoroughly well finished in every detail.

WHITE DRILL JACKETS 6/11, 8/11, 10/6
KHAKI DRILL COATS 7/11, 10/6, 12/6, 14/11
WHITE DRILL COATS 10/6
BLACK DRILL COATS 16/6
UNBLEACHED COATS 8/11

STOCK SIZES 34 to 44 chest; measure over waistcoat. Special pockets and little adjustments can be made without extra charge. POSTAGE on single coat 9d., but 20/- orders upwards carriage paid. SPECIAL PRICES FOR LARGE QUANTITIES.

GARDINER

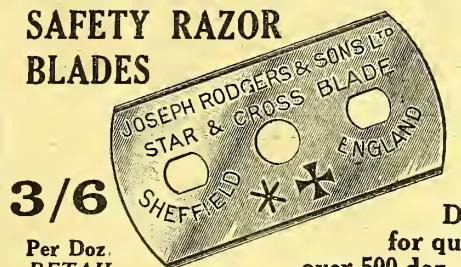
& CO. (The Scotch House), LTD.

1, 3, 5 COMMERCIAL RD., LONDON, E.1.
Telephone: Avenue 6650 Established 1833.

BRANCHES:

Deptford, Edgware Road, Woolwich, Clapham Junction and Knightsbridge.

STAR AND CROSS SAFETY RAZOR BLADES



3/6

Per Doz.
RETAIL

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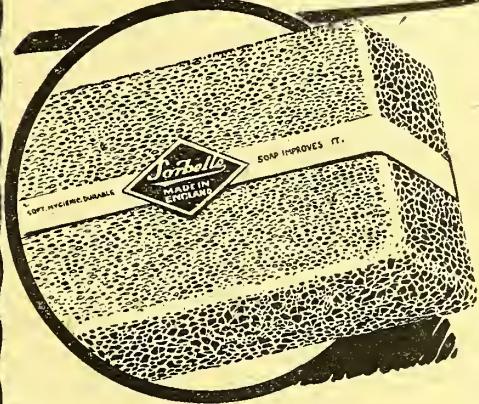
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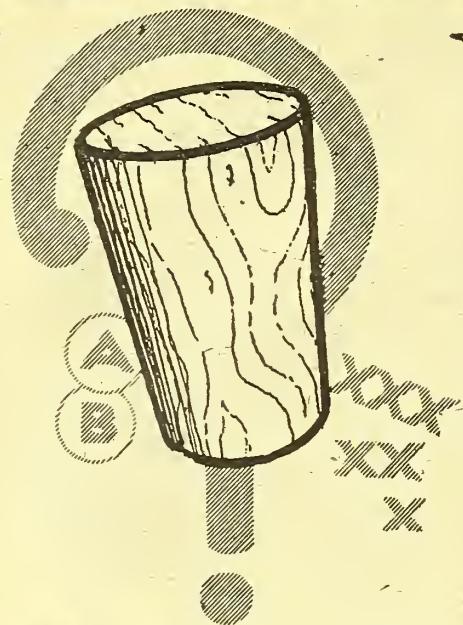
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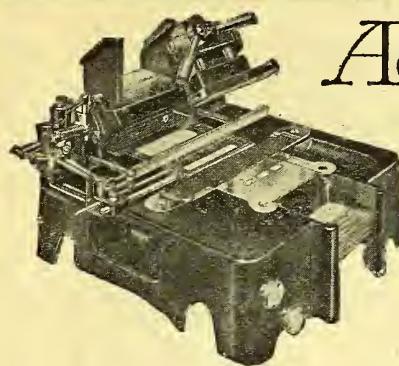
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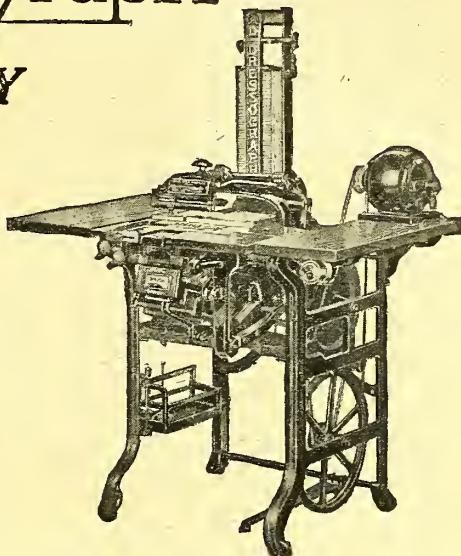
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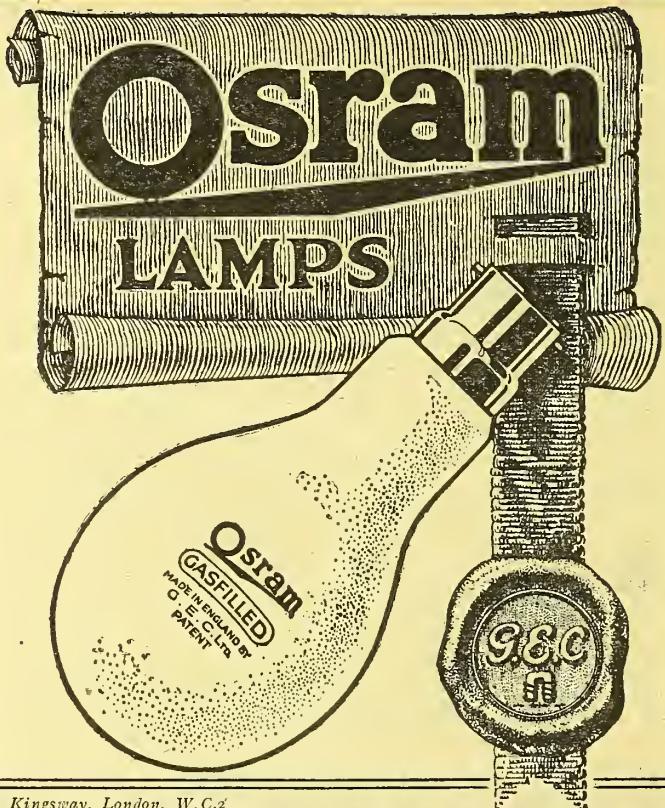
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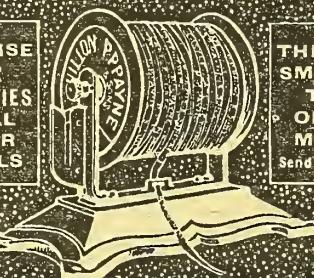
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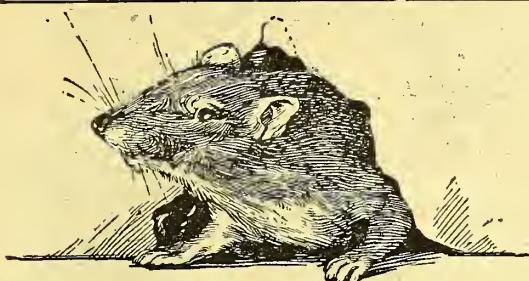
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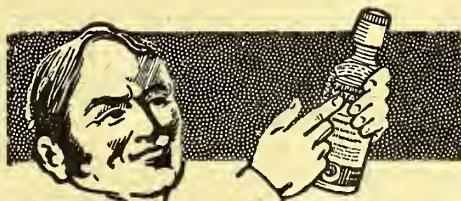
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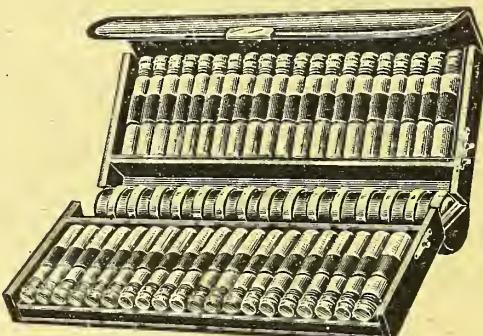
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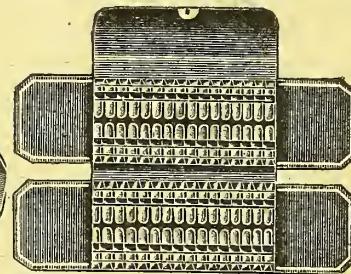
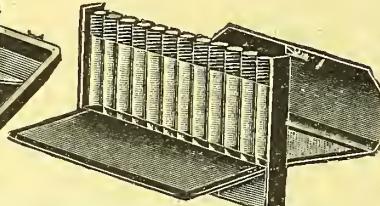
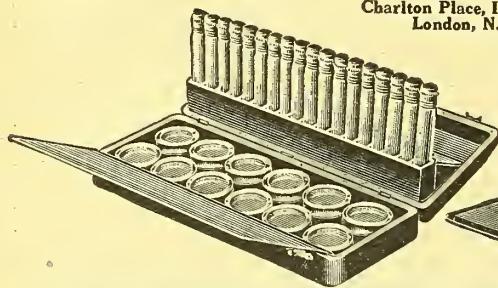


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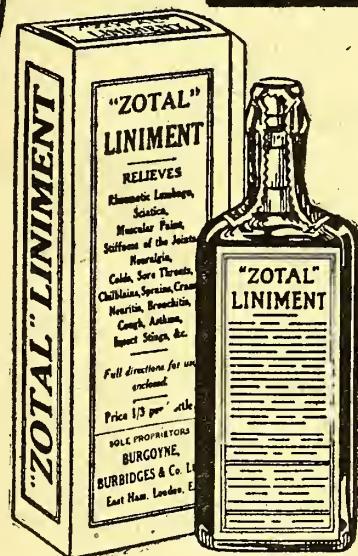
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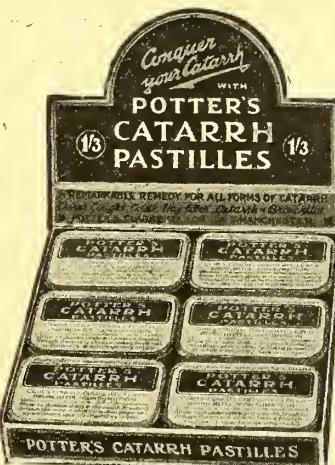
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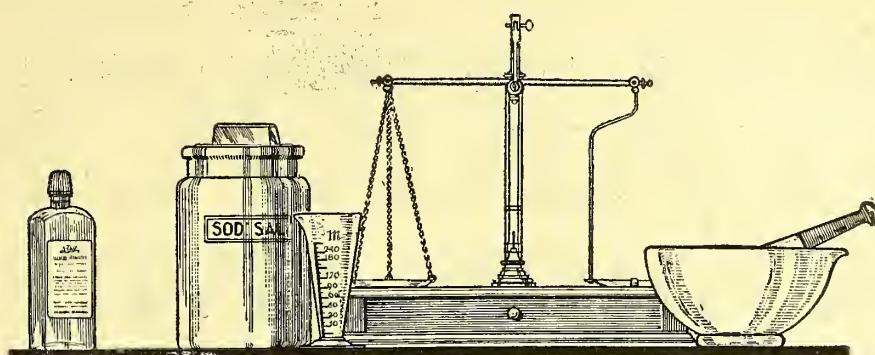
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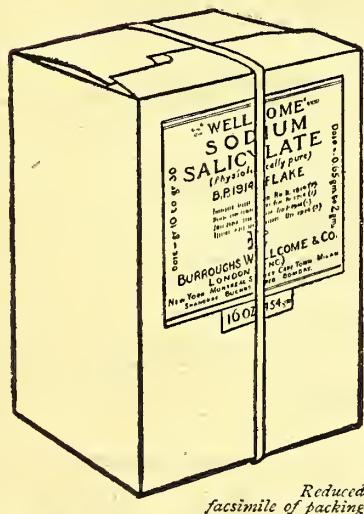
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C. & D. Poisons Cards

THE advantage of the C. & D. system of Poisons Cards is that they are revised whenever there are any changes in the regulations dealing with the sale of poisons. By purchasing each new edition a chemist is certain that he has before him a working summary of the most recent poison laws. The importance of following the changes very closely is obvious to the busy chemist, bearing in mind the outrageous penalties which may be incurred by innocent infringement of the innumerable regulations made under the Dangerous Drugs Acts.

No. 1.—Poisons Card giving the Schedules and Regulations under the various Acts of Parliament restricting the sale of poisons, etc., in Great Britain, has been revised in accordance with the changes introduced by the Order in Council which came in force on August 14.

No. 4.—Dangerous Drugs Act Summary of Regulations, with table showing the percentages of cocaine, diamorphine, and morphine in various pharmaceutical preparations. New edition on sale October 15, revised in accordance with the regulations in force since July 29.

The C. & D. Poisons Cards are issued of a uniform size (10 in. by 12½ in.), with the information distinctly printed on white cards, with cord for hanging up in the pharmacy or dispensary. The cards are supplied at 1s. each, post free.

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

A Doncaster Centenary

The "Doncaster Chronicle" of October 8 gives an interesting account of the business of Mr. Charles Parkin, chemist and druggist, 47 and 48 Market Place, founded in 1826. The earliest proprietor who has been traced is Mr. Charles Dunwell; Mr. Dunwell was succeeded by Mr. James Howorth, Ph.C., to whom Mr. Parkin went early in life as an assistant. Eventually Mr. Parkin became Mr. Howorth's partner, and, on the latter's retirement thirty years ago, sole proprietor. The business is now managed by Mr. Parkin's son, Mr. F. A. Parkin, Ph.C. On another page of the same newspaper is shown a group of old specimens of apparatus and so forth connected with the business. Among these are four syrup jars, labelled respectively "Syr. Rhœados," "Oxy. Scillæ," "Syr. Aurantii," and "Syr. Tolut."; a leech-jar; two carboys of about one-gallon capacity each, apparently made of black glass; and three mortars, one of which is mounted on a block of wood about three feet high.

Contracts

The following tenders have been accepted by the bodies named:—

Croydon Guardians.—Thomas Hodgkinson, Prestons & King, drugs; S. Maw, Son & Sons, Ltd., dressings; Allen & Hanburys, Ltd., instruments.

Grantham Town Council.—Whysall & Son, chemists, drugs, etc.

Liverpool Port Sanitary Committee.—Evans Sons Lescher & Webb, Ltd., Ayrton, Saunders & Co., Ltd., and B. H. Baker & Co., Ltd., drugs and disinfectants; Alexander & Fowler, White & Wright, B. Pratt & Co., and Ayrton, Saunders & Co., Ltd., druggists' sundries.

Malvern Urban Council.—Mr. C. H. Derbyshire, Ph.C., drugs, etc.

St. Albans Guardians.—Ekins & Fisher, chemists, Albert Browne, Ltd., Corbyn, Stacey & Co., Ltd., and W. G. Taylor, drugs and dressings.

Poisonings

The following cases of fatal poisoning, among others, have been recorded since our last report:—

On October 8 the West London coroner, in recording a verdict of "Suicide while of unsound mind" at the close of an inquiry concerning the death of William Sherrington, a messenger lately employed by Lewis & Burrows, Ltd., remarked that if only a member of Parliament were to poison himself with lysol, the authorities would then wake up and place a ban on its present unrestricted sale. The coroner added that nothing seemed to be done to restrict the sale of lysol. The danger appeared to lie in the small quantity required for a fatal dose. All shops and chemists from whom it could be obtained should be required to take the name and address of those who purchased it, and for what purpose they wanted it.

An inquest was held by the West London coroner, on October 12, on the body of Elizabeth Grace Lady Dimsdale, widow of the late Sir John Dimsdale, who died in St. Mary's Hospital after having been found unconscious in a neighbouring hotel. A medical witness stated that he treated Lady Dimsdale for lysol poisoning, and used a stomach pump. She revived for a time. The Coroner: Is lysol easy to buy?—Yes, anyone can buy it. Can you buy it at a chemist's without any restrictions?—Absolutely, or even, I believe, at oilshops. The Coroner: It is a wonderfully loose habit we have of being able to buy a deadly poison like this, even at shops that are not chemists, without any restrictions at all. A verdict of "Suicide while of unsound mind" was recorded.

Birmingham

The local section of the Institute of Chemistry has appointed the following officers for the ensuing year:—Chairman, Professor Ling; Vice-Chairman, Mr. F. H. Alcock; Secretary, Dr. Higginbottom; Treasurer, Dr. Wardlaw.

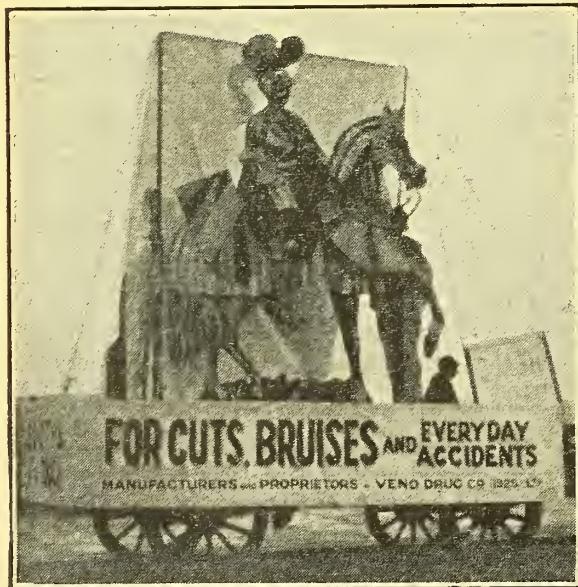
At Birmingham Police Court, on October 5, Sidney Bishop, drug-store proprietor, Summer Lane, was summoned for manufacturing and storing a quantity of explosive. It was stated that Bishop had been mixing flowers of sulphur and potassium chlorate at his shop and had been selling the mixture to boys for the making of fireworks. On a recent date he noticed gas forming in a jar containing the mixture. Taking the jar from the shelf he took out the stopper; the mixture immediately burst into flames and set fire to the shop. An official of the Explosives Department said that the manufacture of the mixture was prohibited, except on licensed premises. A fine of £5 was imposed.

The course chosen for this year's reliability trial of the Birmingham and Midland Pharmacists' Motor Club, which was held recently was from Alcester Lanes End, Birmingham, through Stratford-on-Avon to Broad Marston. Following lunch the competition went on via Weston to Saintburn Hill, which was in a greasy condition, for the speed test. Messrs. Rogers, Birt and Palmer made excellent climbs and the fastest times. On the top of the hill the reversing test took place, and proved most exciting. Competitors had to reverse twice round a triangular stretch of road. Several of the competitors mounted the grass bank, and one car tried to get over a wall! Clean and outstanding performances were made by Hubert Thompson, Wright and Rogers. In the pouring rain the cars were then marshalled for the brake test down Chipping Campden hill. The cars had to travel down the hill and pull up on a white tape. Competitors with four-wheel brakes did very well, but owing to the greasy surface those with two-wheel brakes did very badly—some could not pull up in time and had to go on, others finished in the bank and two finished up sideways on the tape. Birt and Thompson pulled up dead on the line. The prize-winners were as follows:—(1) Silver rose bowl, Mr. J. Rogers (Daimler); (2) Mr. H. Thompson (Morris Cowley); (3) Mr. C. Birt (Gwynne eight).

Manchester

Cold and rainy weather having set in, chemists are finding business more encouraging.

The procession of the pageant of industries (Manchester goods) during Civic Week on October 6 and 9 was a revelation even to Manchester-born folk, who had no idea that Manchester was famed for so many products. Among other exhibits were three by the Veno Drug Co., Ltd., one by the Evan Williams Co., Ltd., and one by Jewsbury & Brown, Ltd. The enormous crowds which thronged the city squares and streets, if they did not do much except sight-seeing, provided a record number of passengers on the Manchester Corporation trams.



Photo]

[Cleworth

Liverpool

Mr. W. H. Saunders, chairman of Ayrton, Saunders & Co., Ltd., left England by the S.S. "Hector" on October 9 for a business trip to China and the Far East.

The visit of Mr. Linstead, the new secretary of the Pharmaceutical Society, to the Liverpool Chemists' Association and Branch of the Pharmaceutical Society on October 20 is being anticipated with interest. This will be Mr. Linstead's first official visit to Liverpool.

After thirty-five years' service, Mr. John M. Tallantyre has resigned his directorship of Evans Sons Lescher & Webb, Ltd. For a number of years Mr. Tallantyre was a member of the Liverpool Chamber of Commerce, and at one time was chairman of the Portuguese Section. He was also associated with the Latin-American Section of the Chamber for providing facilities for the teaching of Spanish and Portuguese to employees of members belonging to the Section. He was president of the Lyceum Club in 1914-15, and was captain of the West Cheshire Golf Club for two years.

Miscellaneous

DAMAGE CAUSED BY GALE.—The high wind at Nottingham on October 9 so swayed the sun blinds at one of the shops of Boots, Ltd., that in one case the supports snapped, and the framework smashed the window. While the other blinds were being put up one got out of control and another window was broken.

FIRE.—An outbreak of fire occurred at the works of Thornton & Ross, Ltd., manufacturing chemists, Milnsbridge, Huddersfield, on October 8. Firemen from the neighbouring chemical works of John W. Leitch & Co., Ltd., assisted in fighting the flames, which, though soon extinguished, caused considerable damage to the roof.

DANGEROUS DRUGS ACTS CASES.—At Bow Street Police Court, London, on October 8, Frank Allday, L.D.S., Charing Cross Road, W.C., and Norman Lester, traveller, Cheverton Road, N., were sentenced respectively to four months' and six months' imprisonment in the second division on charges of unlawfully offering to supply and possessing "dangerous" drugs (*C. & D.*, October 9, p. 561);—At East Ham Police Court, on October 12, S. Hun, seaman, was fined £20 for being in unauthorised possession of 4 lb. of opium on board a ship.

Irish News

Brevities

A deputation from the Cork Mineral Water Manufacturers' Association waited on President Cosgrave, who paid a visit to Cork recently, and explained the difficulties occasioned by the Standard Bottle Act, which recently came into force in the Irish Free State, and also as to the duty payable on table waters. President Cosgrave promised to investigate the various matters.

Dr. Denis McCarthy, senior surgeon Furness Line, has been appointed to R.M.S. "Nova Scotia," which sails from New York to the West Indies. Dr. McCarthy, who is honorary lecturer at Queen's College, St. John's, Newfoundland, and the Newfoundland Government General Hospital in *materia medica* and *therapeutics*, is a licentiate of the Pharmaceutical Society of Ireland, and served his apprenticeship with Mr. A. N. Cole, Ph.C., Youghal, co. Cork.

Belfast

At the Police Court on October 12, James Ray, Wansworth Parade, was charged with attempting to obtain a "dangerous" drug, morphine, without being authorised to use it. A constable said he arrested accused in the shop of Mr. T. McGurk, Ph.C., Cromac Square. A remand for a week was granted, bail being allowed.

Mr. W. J. Hardy, Ph.C., President of the Belfast Chamber of Trade, and Mr. Horatio Todd, J.P., President of the Pharmaceutical Society of Northern Ireland, responded for the guests at a luncheon given recently to the Executive of the Chamber by the Belfast Wholesale Merchants' and Manufacturers' Association. Mr. T. W. McMullan, M.P., M.P.S.N.I., presided.

Scottish News

Brevities

Mr. J. D. Crooks, chemist and druggist, has taken over the business of the late Mr. D. McNay, chemist and druggist, of Bank Street, Kilmarnock.

At the recent annual general meeting of the Ancient Fraternity of Dyers of Linlithgow, ex-Bailie Aléxander Spence, chemist and druggist, Newington Road, Edinburgh, was re-elected deacon and treasurer. This is Mr. Spence's fourth term of office.

Edinburgh

At the opening meeting of the session of the Edinburgh Photographic Society, on October 5, Dr. Inglis Clark delivered an interesting lecture on "A Visit to Burma." A number of beautiful autochromes illustrating the outstanding features of the country were shown.

In a recent lecture at Edinburgh on the vegetation of Ben Lawers, Mr. R. M. Adam, of the Royal Botanic Garden, stated that the "Ben" surpasses all British mountains for wealth of botanical specimens. Out of 1,024 known and recorded Scottish flowering plants, some 500 grow in the vicinity of the mountain.

Belfast Pharmacists' Dinner

MR. HORATIO TODD, President of the Pharmaceutical Society of Northern Ireland, entertained a large party to dinner in Thompson's Restaurant, Belfast, on recently. Invitations were extended to the Prime Minister of Northern Ireland and the members of the Cabinet, the members of the Council of the Society, the principal officers of the drug trade organisations in Belfast, and the Pharmaceutical Societies of Great Britain and Ireland. In proposing "The Governor and Prosperity to Northern Ireland," the President said their Government had been responsible for many useful Acts of Parliament, and not the least was the Pharmacy and Poisons Act, 1925, which brought their Northern Pharmaceutical Society into being, and which would, he believed, in the long run greatly enhance the status of their profession. Sir Dawson Bates, in acknowledgment, said he would like to utter a word of congratulation to the Society, which had now been in existence upwards of a year. The framing of the Bill had been extremely difficult, and if the Act was a success, as he believed it was, it was largely due to the assistance that the Government received from both sections of the trade. He believed they had got more out of the Government by the way in which they carried on the negotiations than anybody else could have done. He did not want to inquire into their finances, but he believed they were not of an unsatisfactory character, and they were going to make even greater success of the Society. The Right Hon. E. M. Archdale, Minister of Agriculture, also responded. Mr. T. W. McMullan, M.P., in proposing the toast of "The Pharmaceutical Society of Great Britain," said that Society, in spite of its eighty years, was still hale and hearty, and it had been looking with a benevolent eye on their progress. It had shown its good will and kindly feelings towards them by paying them the compliment of sending as its representative that evening its secretary, Mr. Linstead. Mr. McMullan mentioned in passing that Mr. Rutherford Hill, the secretary of the North British Branch of the Society, was many years ago on the staff of Grattan & Co., Ltd., Belfast, and that Mr. Theophilus Harper, of Messrs. Grattans' present staff, was the only member of both the British and Northern Irish Societies. Mr. McMullan, in closing, urged the importance of reciprocity between the two Societies. Why should there be only one member of their Society a member of the British Society? They were very close to Great Britain, and while he was not going to argue reciprocity at any length, he trusted both Councils would take counsel together and see if they could not settle the matter, for they desired to have the closest, warmest, and most friendly relationship with the British Society. Mr. Linstead, in reply, said that was his first visit to

Northern Ireland, and he appreciated very much the privilege of being sent to represent the Council. The Pharmaceutical Society of Great Britain had been keeping a very watchful eye on the baby, to which Sir Dawson Bates had alluded. They had for many years in Ireland, just as they had in England, been suffering under a large number of rather antiquated pharmacy Acts. The Northern Act of 1925 represented an attempt to consolidate those rather old-fashioned Acts. In Great Britain they still had about six Acts, and they would see before long they were going to be faced with the problem of consolidating them. Touching on the question of reciprocity, Mr. Linstead said his committee had had applications and had referred them to a committee, consequently the Council had not come to any decision, and he was not in a position to give any views representing the views of the Society. He had had an opportunity of talking it over with some of their Council members, and he had their views, which certainly would go before the Council when the question was being considered. The problem that had to be faced by both Councils was, roughly, this: Empire reciprocity was a thing which they ought to look forward to from the broad point of view in pharmacy, just as they had got it in medicine. At the present time they had only reciprocity with Australia, New Zealand, and the Province of Ontario, all of which were thousands of miles from England. Therefore, as he saw it, the snag on the question between Great Britain and Northern Ireland was the shortness of the distance between the two countries. If there was any difference between the standards in Northern Ireland and England, there was going to be an obvious tendency for a sort of migration of people to whatever country—he could not say which—offered the lower standard. That was a difficulty which, for the moment, he did not see the way to get over. Mr. Linstead concluded by commending the International Pharmaceutical Federation to the Council, and expressed the hope that if they received an invitation from the general secretary they would see their way to become members. Mr. James Guiler, in proposing the toast of "The Pharmaceutical Society of Ireland," made a reminiscent speech. He said he was the oldest licentiate of that Society, with which he became connected first in 1878, when he passed his preliminary examination. Mr. Guiler proceeded to recall some of the veterans of the early days of the Society, including the grandfather of Mr. Pring, who was present that night, Mr. Wells, Mr. Payne, Mr. Hayes, Mr. Beggs, Mr. Brindley, Mr. Hudson and Mr. Montgomery. Mr. John Smith was, he believed, really the senior member of the Council now. The old Irish Society would in future be known as the Pharmaceutical Society of the Free State. But by whatever name it was called they wished it every prosperity. Dr. Walsh, in reply, said they had watched with great interest their efforts and their success in producing their admirable Society in Belfast. He hoped there would be reciprocity between the two Societies, and that the friendly feelings which now exist would be still more engendered. Other toasts were "The Queen's University of Belfast," proposed by Mr. Fred Storey and responded to by Professor Small and Dr. Fielden; "The Municipal College of Technology," proposed by Mr. W. J. Hardy and responded to by Professor Earls, Professor Wren and Mr. S. D. Cheyne, J.P.; and "Our Host," proposed by Mr. G. B. Hanna, M.P., and responded to by the President.

EXEMPTIONS FROM IMPORT DUTY.—An Order published in "The London Gazette" of October 1 exempts from import duty under the Safeguarding of Industries Act, 1921, complete binoculars, telescopes and amicos not exceeding 1s. 6d. each in value, complete optical lanterns not exceeding 2s. each, and complete cinematographs not exceeding 3s. each.

"PROGRESS."—Among a large number of illustrations in the October number of "Progress," the quarterly house-organ of Lever Brothers, Ltd., is a photograph of the President and the Vice-President of the Pharmaceutical Society, taken by Mr. John Cleworth during the recent Leicester Conference. Articles of interest to chemists include one by Mr. L. H. Hartland-Swann, C.B.E., dealing with toilet requisites; "The Story of Trufood, Ltd.," and an account of the discovery and uses of glycerin.

French News

From the "C. & D." Paris Correspondent

THE MUNICIPAL COUNCIL of Paris has decided that house surgeons and hospital house pharmacists who have contracted maladies or met with accidents in the execution of their duties may receive gratuitous treatment in the hospitals, and also be paid during their illness and convalescence. The details of the scheme form the subject of eight additional "articles," to be added to the existing Hospital Service Regulations.

THE NEW BIOLOGICAL LABORATORY of the Pharmaceutical Society of Great Britain formed the subject of favourable comment at the recent general meeting of the General Association of French Pharmacists, and the question was raised as to whether it would be possible for the Association to organise something on the same lines. The difficulty is, of course, the expense. Another idea put forward was to arrange some scheme in collaboration with the Faculties and Schools of Pharmacy with the same object.

RUBBER EXHIBITION.—The seventh International Exhibition of Rubber is to be held at Paris in January 1927. The joint chairmen of the Organising Committee are Sir Wyndham Dunstan and M. Perrot, Professor of Materia Medica at the Paris Faculty of Pharmacy. During the exhibition (January 21 to February 6) congresses will be held and lectures given, the first week being devoted to rubber, the second to other colonial products (cotton, vegetable oils, cocoa, coffee, tea, etc.). Information may be obtained from the offices, 49 rue des Mathurins, Paris.

STATUS OF PROPRIETARY MEDICINES.—A French lawyer warns pharmacists that the Decree of July, while it legalises proprietaries which bear on the label a disclosure of their active ingredients, no less formally condemns as "secret remedies" those which omit to give this information. He has no doubt that the inspectors of pharmacies will close their eyes to the illegality of a large portion of every pharmacist's existing stock until a sufficient time has elapsed to sell this out and obtain new and properly-labelled goods. He thinks there is every reason to believe that the ban on "secret remedies" pronounced by Article 32 of the Law of Germinal will now actually be upheld by the Courts.

Colonial and Foreign News

CANADIAN P.A.T.A.—According to the "Toronto Evening Telegram" of September 1, G. Tamblyn, Ltd., Toronto, who have been refused supplies of price-protected articles, have issued a writ in the High Court against Sir William Glyn-Jones, Mr. Leo. C. Ryan, W. J. Fraser, and C. Tinley, officers of the Proprietary Articles Trade Association, and against the National Drug and Chemical Co., and Northrop & Lyman Co., Ltd. The plaintiffs seek an injunction and claim \$45,000 damages.

INDIAN DRUGS.—Mr. H. C. Allen, in an address to the Calcutta Rotary Club, suggested the adoption in India of a measure equivalent to the British Food and Drugs Act as a means of protection against adulterated medicines. According to him, the result of *ad valorem* duties on imports into India affected spirituous medicines, and while the imported article is of B.P. quality, no standard was imposed for India. In spite of the high protective duty, a number of manufacturers in India produce articles having only a slight resemblance to the standard or genuine article. Firms anxious to produce reputable goods find themselves out of the market, and have no alternative but to produce at a loss or go out of business. A falling off of revenue led the Excise authorities to make inquiries which resulted in the discovery that alcohol was not being used in quantities necessary to produce genuine goods. To protect revenue, tests were made for spirit strength. The enormous quantities of medicines distributed in tablet form, presents opportunities for deception, an example of which is provided by the instance of malaria tablets containing four grains of talc and one of quinine, instead of five grains of quinine. Similarly, essential oils such as sandalwood and cinnamon as well as ipecacuanha wine were subject to considerable adulteration.

American Notes

By "The Man from London"

PROHIBITION AND MEDICINE.—Reports come from Chicago that about fifty doctors and seven druggists have had their liquor licences revoked by the federal prohibition authorities. The same state of affairs exists in New York, where recently many doctors and druggists were indicted for prescription bootlegging of whisky.

THE 150TH EXPOSITION in Philadelphia is attracting many visitors from all parts of the United States. The historical pharmacy exhibit, of which Dr. Robert J. Ruth is director, is a popular feature of the 1776-1926 show. The progress made in pharmacy generally is excellently presented in this exhibit, and the arrangements of the different features reflect credit upon all concerned.

AN ANCIENT BLADDER STONE.—The "Journal of American Medical Association" reports that in the course of an examination of an 18-year-old male mummy discovered in the basket maker caves of North-Eastern Arizona, Mr. S. J. Guernsey, Peabody Museum, Harvard University, found among the articles associated with the burial an ovoid stone the size of a lime. The stone weighed about one ounce, and was discovered "in the pelvis of the mummy." Chemical analysis showed the presence of calcium, phosphate, and uric acid. The interest in this stone lies in the antiquity of the stratum to which it belongs. According to Mr. Guernsey, the basket makers, so-called from the fact that finely woven baskets are invariably mortuary offerings, are the most ancient human group in the south-west of which we have knowledge. They antedate the cliff dwellers. The age of the mummy is placed at least three thousand years old.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, October 18

Birmingham Pharmaceutical Association, Imperial Hotel, Temple Street, at 9.15 p.m. Annual meeting.

Retail Pharmacists' Union (Birmingham Branch), Imperial Hotel, Temple Street, at 8.30 p.m. Annual meeting.

Tuesday, October 19

Ealing Pharmacists' Association and Branch of the Pharmaceutical Society, Comrades of the Great War Club, Uxbridge Road, W.5, at 8.30 p.m. Professor Greenish on "Drugs."

Wednesday, October 20

Birmingham Municipal Technical School, Suffolk Street, at 3 p.m. Inaugural meeting. Prize distribution by Mr. A. R. McIlvish (member of the Pharmaceutical Council). Annual dinner and dance, Grand Hotel, at 7.30 p.m. Former students invited.

Guild of Public Pharmacists, 17 Bloomsbury Square, London, W.C., at 7.30 p.m. Address on "The Public Pharmacist" by the President (F. A. Hocking, B.Sc., Ph.C.).

Manchester Pharmaceutical Association, Midland Hotel, at 6.30 p.m. Annual dinner. Reception by the President and Mrs. J. H. Franklin at 6 p.m. Tickets (12s. 6d. each) from Mr. T. Miller, secretary, or Council members.

Pharmaceutical Society of Great Britain (Ipswich and Suffolk Branch), Crown and Anchor Hotel, at 7.45 p.m. Dinner and social evening. Tickets, 4s. 6d. and 2s. 6d. (junior members), obtainable from the secretary or members of the Committee.

Pharmaceutical Society of Great Britain (Medway Branch), Bull Hotel, Rochester, at 4 p.m. Annual meeting. Address by Mrs. Freke (member of the Council).

Pharmaceutical Society of Great Britain (West London Branch), Slates' Restaurant, 192 Oxford Street, W., at 8.15 p.m. Mr. J. P. Gilmour (Editor of the "Pharmaceutical Journal") on "The Pros and Cons of State Regulation in Pharmacy." Refreshments and music.

Thursday, October 21

Chemical Society, Burlington House, Piccadilly, London, W.1, at 8 p.m. Four papers will be read.

Chemists' Dental Society, University of London (Imperial Institute), South Kensington, S.W.7, at 5 p.m. Meeting. (International Dental Exhibition.)

Federation of Ucailites, Criterion Restaurant, Piccadilly Circus, London, W., at 6.30 p.m. Dinner and dance. Tickets (7s. 6d. each) from the Depot, 6 Keith Grove, or Mr. G. W. Evans, 239 Hammersmith Road, W.

Legal Reports

Failing to Enter Cocaine Supply.—At Merthyr Tydfil Police Court, on October 12, Mr. William Perriman, dentist, was summoned for failing to make entry in a register of a drug (cocaine) purchased for anaesthetic purposes. A police witness stated that he found a bottle containing cocaine solution at the defendant's house in Heolgerig, and another at his surgery in Plymouth Street. In each case the solution contained 4 gr. of cocaine to 1 oz. Mr. C. Davies, chemist, High Street, said he had supplied the defendant with cocaine twice since July. Mr. D. L. Davies, for the defence, said that up to July last it was not necessary to keep such a register, and Mr. Perriman depended upon the "Dental Magazine," which only reached him on October 11, for information. The defendant had been practising as a dentist since 1912. The chairman said he did not agree that this was a technical offence, but the Bench were all prepared to believe that the defendant had acted inadvertently, and they did not propose to record a conviction this time, as the Regulations were new. The summons would be dismissed on payment of 20s. costs.

An Ex-Medical Practitioner's Prescription.—At Marlborough Street Police Court, London, on October 8, John Kynaston, Langham House, Regent Street, W., was summoned for aiding, abetting, counselling and procuring Rowland Pawsey to attempt to obtain possession of powdered opium, contrary to a Regulation made under the Dangerous Drugs Act, 1920, and with wilfully and falsely taking and using certain additions and descriptions, implying that he was then a registered medical practitioner under the Medical Act, 1858, namely, M.R.C.S., L.R.C.P.Lond. The defendant objected to being referred to as Mr. Kynaston, saying that he was a retired lieutenant-colonel of the R.A.M.C. Mr. Vincent Evans, for the Director of Public Prosecutions, said that the defendant treated Mr. Pawsey for catarrh, and in furtherance of the treatment he handed him a prescription. That prescription had at the top these words: "Late R.A.M.C., L.R.C.P., M.R.C.S." The defendant signed the prescription at the bottom: "Lt.-Colonel R.A.M.C. retired, M.R.C.S., L.R.C.P.Lond." As a matter of fact, said Mr. Evans, his name was removed from the lists of the two colleges in question. In 1922 he was removed from the Register by the General Medical Council. Mr. Rowland Pawsey, registrar of marriages for Marylebone, gave evidence for the prosecution. Cross-examined, witness said he did not ask Colonel Kynaston to give him a "dangerous drug." He could not say he knew that the defendant had been removed from the Register: he inferred it. Mr. C. Siggers, chemist, Abbeville Road, S.W., said that the previous witness handed him the prescription. Witness did not make it up, but communicated with the Retail Pharmacists' Union. Cross-examined: He had no reason to suppose that Mr. Pawsey required it for an improper purpose. He made inquiries, and refused to make it up, because the defendant was not on the Register. The case was adjourned.

Gazette

Bankruptcy Acts

RECEIVING ORDER

McCARTHY, H. H., 24-26 Holborn, London, E.C., and lately at 80 Bishopsgate, London, E.C., chemist.

RECEIVING ORDERS AND ADJUDICATIONS

BRADBURY, J. A., Green End House, Stafford, and 113 Wolverhampton Road, Stafford, druggist.

COHEN, S. J. R., 53 and 54 Houndsditch, London, E.C., sponge importer.

FREEMAN, J. W., 12A Park Row, Bread Street, Bolton, chemical manufacturer.

HADDOCK, J., 79 Whitehall Road, West Bromwich, manufacturing chemist.

MCINROY, J., 64 Brunswick Road, Liverpool, chemist.

WELLS, J. J., "Redcar," George Street, and High Street, Mablethorpe, Lincolnshire, late of 20 Premier Road and 131 Carlton Road, Nottingham, chemist.

Bankruptcy Reports

Re Josephus Teague Barrett, "Razmak," Park Road, Watford, late of 68 Queen's Gardens, London, W.2, retired pharmaceutical chemist (*C. & D.*, August 21, p. 363).—The statement of affairs shows liabilities £4,670 2s. 7d., against assets £76 13s. 10d. The debtor attributes his failure to loss of the goodwill of a chemist's business and loss on the sale of stock and fixtures, and heavy claim for dilapidations to the premises. It appears that for forty-seven years to June 1925 he was in business as a chemist on his own account, first at Leamington Spa 1877-1904 and subsequently at Queen's Gardens, W., at which address in 1904, with £3,000 available cash, he commenced business, trading as Mathews & Barrett. The business was never wholly successful, and after 1914 it steadily declined. Between 1910 and June 1925 he put into the business £2,410 further, lent to him by his wife. In June 1925, when the lease of the premises expired, and he was unable to arrange terms about a new lease, he closed the business and disposed of the stock, fixtures, etc., for £257, which sum was almost wholly used in payment of trade debts. He became aware of his position in June 1925.

Re Herbert Frank Awcock, trading as T. H. Muir, 101 Mitcham Lane, Streatham, London, S.W.16, chemist.—The first meeting of the creditors was held on September 29 at 29 Russell Square, W.C.1. The statement of affairs showed liabilities expected to rank of £1,092 1s. 9d., against assets of £121, from which had to be deducted preferential claims of £91 17s. 6d., leaving net assets of £29 2s. 6d., or a deficiency of £1,062 19s. 3d. The debtor attributed his failure to unemployment, losses arising from a druggist's business mainly due to insufficient turnover, a bad debt and depreciation of stock. It appeared in July 1925, when he owed £160 and had no assets, he purchased for £200 a two-fifths share in a drug stores business. This money was borrowed and had not been repaid. The business was not successful, and in September 1925 his partner's three-fifths share was sold to a third party, and the trading style of the business was changed. On April 1, 1926, the business was in difficulties, and debtor took over from his partner her interest in the business in consideration of his undertaking to discharge the liabilities, then amounting to £380, of which sum £52 is still owing. Debtor had since unsuccessfully carried on the business as the sole proprietor. He admitted having been aware of his position since 1918. The case was left in the hands of the official receiver as trustee of the estate.

Re Mrs. Annie Beatrice Coupland, 253 Rye Lane, Peckham, London, S.E., chemist.—A sitting of the London Bankruptcy Court was appointed to be held on October 13 for the public examination of this debtor, but on the application of the official receiver the sitting was adjourned till December 1. The debtor filed her own petition on June 8 (*C. & D.*, July 3, p. 6), and has lodged accounts showing liabilities £2,942, and assets *nil*. According to the observations of the official receiver, the debtor states that prior to her husband's death in April 1921 he had carried on business as a chemist at 253 Rye Lane, Peckham. Her husband died intestate, leaving herself and two children, both minors; letters of administration were granted to her. The deceased's estate was sworn at £5,039; she made no attempt to wind up and distribute the estate, but disposed of the securities and continued the chemist's business, under a manager, on her own behalf. In January 1925 she supplied goods to the value of about £200 to assist an acquaintance to open a drug store at 101 Mitcham Lane, S.W., and allowed him to use her name as reference; in October 1925 she purchased the acquaintance's interest in the business for £125, and in addition paid rent and debts amounting to about £211; she continued the Mitcham Lane business until March last, when she assigned the business to her manager upon his undertaking to discharge the liabilities. The debtor attributes her failure and insolvency to losses in connection with the Mitcham Lane shop, and to having made loans to persons, which loans are now irrecoverable. She has been required to file an amended statement.

New Companies

and Company News

P.G. means Private Company and R.O. Registered Office

STREET & CO. (RADCLIFFE), LTD. (P.C.).—Capital £500. Objects: To carry on the business of pharmacy and drug store proprietors, chemists and druggists, etc. The directors are: W. Ford and Frances E. A. Ford. R.O.: 43 Cross Lane, Radcliffe.

BRITISH GELS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of oil, spirit and colour men, chemists, druggists, drysalters, etc. The directors are: H. C. Lancaster, H. S. Tasker, and R. S. Brown. R.O.: Millmarsh Lane, Brimsdown, Middlesex.

VANILLIN-FABRIK G.m.b.H., Hamburg-Billbrook.—Capital: marks 240,000. This company has taken over the plant of Franz Fritzsche & Co. A.G., and will continue to supply the products hitherto supplied by the latter, viz.: synthetic perfumes, essential oils, essences, etc. Herr C. Ostermann and Herr H. Dieckmann have been appointed managing directors.

TOR PERFUMERY CO., LTD. (P.C.).—Capital £100. Objects: To adopt an agreement with the Toro Tablet Co., Ltd., for the acquisition of the word "Tor," a trade mark numbered 355,029 in Class 47 and 465,251 in Class 48, and to carry on the business of manufacturers of and dealers in toilet requisites and perfumery, distillers of essential oils and essences, etc. Solicitors: Harold Mayhew & Co., 47 Temple Row, Birmingham.

VELRAY PRODUCTS, LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers of and dealers in all kinds of toilet requisites and preparations, perfumes, powders, creams, colours, scents, soaps, paints and varnishes, collectors of flowers and perfume-producing vegetation, etc., to acquire from W. A. Ward the benefit of the registered trade mark "Velray." The directors are: W. A. Ward and H. F. Palmer. Solicitors: Goodall, Son & Flewitt, 12 Middle Pavement, Nottingham.

FONTAGENE SODA FOUNTAINS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of founders, engineers, manufacturers of aerating machinery, etc., and to acquire (1) the trade mark "Fontagene" and (2) a certain invention in reference to gasogenes and similar apparatus for aerating, carbonating or gasifying liquids in respect of which Patent No. 19,574 of July 1922 was applied for by P. A. Garrett and granted under No. 202,809. The directors are: S. R. Lawrence, C. E. Lawrence, and J. H. Lawrence. Solicitors: H. G. Campion & Co., 5 Queen Victoria Street, London, E.C.4.

JOHN BELL & CROYDEN, LTD.—The report for the year closing January 2, 1926, shows a loss of £26,443, compared with £25,040 for the previous twelve months. During the period under review the sales again increased and trading results improved; the increase in sales still continues in the current year. The directors regret that the plan for making good the dissipation of working capital, referred to in the last report, proved abortive. The directors are of opinion that sales are likely to increase slowly; until, however, some reorganisation of the debenture and loan capital has been made it would appear improbable that the business can be brought to a sound position.

GENATOSAN, LTD.—The directors state, in their report to June 30, 1926, that the company has continued to make good progress, despite the general trade depression. The net profit amounts to £39,367, to which has been added £20,224 brought forward, making a total of £59,591. Of this amount £11,400 has already been absorbed in paying dividend on the ordinary shares to June 30, 1925, £5,320 in paying one year's dividend on preference shares to March 31, 1926, £8,000 in paying one year's dividend on preference shares to May 31, 1926, and £5,313, which has been transferred to the reserve against removal suspense account. Out of the balance of £29,558 it is proposed to pay an ordinary dividend of 25 per cent., free of tax, to transfer £5,000 to general reserve, and to carry forward the balance.

Salford Analyst's Report

THE report of the Salford borough analyst (Mr. G. D. Elsdon, B.Sc., F.I.C.) for 1925 contains several matters of interest to the drug trade. During the year under review 1,396 samples were taken under the Sale of Food and Drugs Acts and 7.7 per cent. were returned as adulterated, compared with 4.3 per cent. in the previous year. Among the articles examined were two samples of cod-liver oil and malt described as containing all the virtues of the original liquid preparation, whilst the taste and stickiness has been overcome. It was found that the substance did not contain unchanged cod-liver oil, and it is likely that the virtues of the oil are largely destroyed. The subject is still under investigation. Turning to drugs, Mr. Elsdon states:—

Eight of the nine samples of seidlitz powder returned as adulterated were described as "double strength." There is a slight difficulty in deciding exactly what is meant by "double strength seidlitz powder." The more clearly accepted idea, and one which is supported by the recipe in the British Pharmaceutical Codex, is that the amount of acid and sodium bicarbonate should be the same in the "double strength" as in the "B.P. strength," but that the amount of Rochelle salt (the larger constituent of the blue paper) should be increased from $7\frac{1}{2}$ grams to 15 grams. An alternative suggestion is that a double strength seidlitz powder is simply two seidlitz powders contained in one. Of these two suggestions the former, in the opinion of the writer, is by far the more satisfactory as increasing the ingredients which cause the actual effervescence might easily make impracticable the mixing of the powder in an ordinary tumbler. This, therefore, has been taken as the more suitable formula, although powders based on the other have also been classified as genuine. In several cases, particularly those of proprietary seidlitz powders packed by wholesale firms and sold in small shops, the B.P. article has been sold as "double strength." This is obviously very undesirable. Sample No. 5553 was described as "extra strong." Again it is not easy to decide exactly the type of powder that can be described as "extra strong." From the actual meaning of the word it might be argued that any powder that was perceptibly heavier than the B.P. article is "extra strong," but it should be fairly obvious that this is not a reasonable stand to take. It would appear that before a powder can be described as "extra strong" that it should be appreciably stronger and such an interpretation is supported by the fact that the British Pharmaceutical Codex contains a formula for "extra strong seidlitz powder," the amount of Rochelle salt in which is increased by one-half over that of the B.P. powder.

Two samples sold in answer to a demand for turpentine were labelled in such a way as to lead the purchaser to think that pure turpentine was being supplied. Letters were sent to the packers stating unless the misdescription was discontinued legal proceedings would be instituted. Legal proceedings were successfully undertaken against the suppliers in the case of an invalid wine which was found to be practically a solution of sugar and water. In submitting the report, Mr. Elsdon says it is probably the last one he will make as public analyst for Salford, and he has included an addendum giving an idea of the work which has been done during his tenure of office.

Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of any British patent can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

Synthetic Camphor.—A process for the conversion of pinene hydrochloride into camphene, consisting in treating the former with a resinate dissolved in an excess of resin, or in a heavy solvent. (G. H. Dupont and G. Brus. 248,404.)

Removal of Arsenic from Tin.—A method of removing arsenic from tin, consisting in treating the impure molten metal with caustic soda, with or without sodium chloride, and also in conjunction with an oxidising agent. (H. Harris. 257,023.)

Pharmaceutical Society of Ireland Annual Meeting

THE fifty-first annual general meeting of the Pharmaceutical Society of Ireland was held at 67 Lower Mount Street, Dublin, on October 4. The President (Mr. Richard Blair) occupied the chair. Others present: Mr. G. A. McLean Lee (Vice-President), Mr. D. M. Watson (Hon. Treasurer), Dr. Mitchell, Dr. Walsh, Dr. Ashe, Dr. M. Ryan, Messrs. J. K. Dayan, F. J. Fitzpatrick, J. Gorry, Ronald Campbell, D. Warwick, J. Smith, Geo. Brown, T. J. Smith, D. J. Nugent, Jas. Duggan, Wm. Jones, J. T. Keogh, J. T. Dwyer, H. J. Sumner, M. V. Sargent, P. J. Kellacky, J. V. McKeever, P. B. Kelly, M. Flynn, T. Costello.

ELECTIONS

The following members were elected to the Council:—Messrs. D. J. Nugent, Fras. Jos. Fitzpatrick, G. A. McLean Lee, Thos. Jos. Doyle, Jas. J. R. Kerr, Jas. Armstrong Mitchell, and James Fleming.

PRESIDENT'S ADDRESS

The PRESIDENT said: There are now in Ireland: Pharmaceutical chemists, 1,356; pharmaceutical assistants, 321; chemists and druggists, 74; and registered druggists, 707; total 2,458, as compared with 2,539 in 1925. Their Society's members and associates totalled 473, as compared with 570 last year. They had to record fourteen deaths in the past year. In their Preliminary Examination they had 286 candidates, of whom 146 passed. At the Pharmaceutical Licence Examination they had 125 candidates, of whom 52 passed; ten with honours. At the Pharmaceutical Assistant Examination the candidates numbered 24, and 19 passed; and at the Registered Druggists' Examination there were 69 candidates, of whom 49 passed. The students attending the Society's schools numbered 157, compared with 146 last year. They had passed through a very important year, the most important event of which was the setting up of Northern Pharmacy on its own account, and the formation of the Northern Pharmaceutical Society. They had had several successful prosecutions for infringements of their rights, and they would have more in the near future. They had not made much progress with regard to the new Pharmacy Bill. The Government were not in a position to proceed with it, but, when they were, the Society would be ready to meet them every way they could, and they hoped they would have a Pharmacy Bill in the framing of which they would have a voice. Otherwise they would have to accept a Bill from the Government. They had a fair average of candidates at their examinations, and he thought they showed better preparation in their studies. Although they had lost many members from Northern Ireland, others were coming forward, and they were not far short of their average roll, and if accessions came along a little more rapidly they would equal any of their better years. They could look forward to the future hopefully, with every prospect of progress and success. He had done what he could. They were good enough to bear with him, and he would continue to work for them as long as he was able. (Applause.)

The PRESIDENT then presented the gold medal of the Society to Mr. Bernard Murphy, who gained the highest marks at the examinations in the year 1925-26. He had passed a very creditable examination, and he wished him success in his professional career.

FINANCIAL REPORT

Mr. D. M. WATSON, Treasurer, presented the financial statement. The expenditure amounted to £1,821 12s. 8d., and the income to £2,487 13s., showing a credit balance of £660 0s. 4d. This was a most satisfactory result. The balance would have been very much better but that they had to bear a considerable amount of non-recurring expenditure. On the motion of Mr. D. J. Nugent, seconded by Mr. James Fleming, the financial statement was adopted.

VOTES OF THANKS

Dr. J. T. ASHE proposed a vote of thanks to the President, who, he said, had given at great personal incon-

venience great service to the Society. A great many of them regretted, especially old members, the passing away of the old Pharmaceutical Society of Ireland. It was a great pity, and not, he thought, to the advantage of the country, or of pharmacy as a whole in Ireland, but perhaps the day would come when the Northern Counties would come in and they might have the two societies working together in greater co-operation. It was a great pity that there was not a linking up. When their new association was formed he hoped and believed it would give as great satisfaction to the medical profession as the old Pharmaceutical Society. Mr. JAMES FLEMING, as a country member, seconded, bearing testimony to the unfailing kindness and courtesy of the President.

The PRESIDENT in replying said he believed when the change that was pending came they would still be the Pharmaceutical Society of Ireland, and it would be a great relief to them if that were attained. They had not sought any divergence from their northern brethren, nor had their northern brethren sought any from them. Force of circumstances and the setting up of Governments had caused the separation. When they were conducting prosecutions in the north the law advisers in the north thought they should have a separate society there, and they were obliged to fall in with that view. They were now in their fifty-first year. Unfortunately it had fallen to his lot to be in the chair when the division between North and South came. He wished the Northern Society every success, and hoped they would prosper. He thanked them for their kindness to him, and he would always do what he could for the Society. (Applause.)

Dr. MITCHELL proposed, and Mr. Warwick seconded a vote of thanks to the Honorary Treasurer for the great work he did for the Society. Mr. Watson acknowledged the compliment.

Mr. WM. JONES proposed, Mr. D. M. Watson seconded, and Mr. G. A. McLean Lee supported a vote of thanks to Miss E. C. Greene, the Registrar, for the efficiency with which she had carried out her duties under difficult circumstances during a very arduous year.

Council Meeting

At a meeting of the Council, held on October 13, at which all the members were present, with the exception of Mr. J. Fleming, the President (Mr. Richard Blair) welcomed the new members of the Council, Messrs. J. J. R. Kerr and J. Doyle, who replied. The election of officers was then proceeded with.

Mr. J. SMITH proposed that Mr. G. McLean Lee be elected president, stating that he understood that Mr. Blair was not seeking re-election. Mr. Lee had carried out the work of Vice-President so satisfactorily that he deserved the honour of being elected President. The RETIRING PRESIDENT (Mr. Blair) seconded.

Mr. D. J. NUGENT proposed that Mr. F. J. Fitzpatrick be elected President. He said he was sorry to oppose Mr. Lee, but in view of the approaching legislation, when the company pharmacy question would bulk largely, he thought Mr. Lee was unsuitable, being a partner in a limited company. Bogus companies have been springing up and that must be stopped. Mr. W. F. KIRBY seconded, and Mr. FITZPATRICK also spoke.

Mr. MCLEAN LEE protested strongly against his name and his company being mentioned in the same breath with bogus companies. Proceeding, he said that his company was composed of a widow, the former employer and himself. The widow could have carried on the business legally as proprietor. The formation of the company was merely for the convenience of arranging his share in the business.

Mr. NUGENT said he did not say that Mr. Lee's company was a bogus one.

Mr. D. M. WATSON agreed, but added that the only inference from Mr. Nugent's words was that, by having Mr. Lee as President, they would conduce to bogus companies.

Mr. NUGENT disagreed with this inference.

The voting, which then took place, resulted as follows:—For Mr. Fitzpatrick eleven voted—Messrs. Kirby, Fitzpatrick, Gorry, Nugent, Kerr, Ryan, Kelly, Doyle, Liston, McCormack and Gannon. For Mr. Lee

the following eight voted:—Messrs. Blair, Walsh, Watson, Smith, Warwick, Campbell, Brown and Mitchell. Mr. Lee did not vote.

Mr. RICHARD BLAIR said he regretted the result of the vote.

Mr. WATSON thereupon resigned his seat and the treasurership, saying the fact that a majority could be obtained at that table for such an indecent action made impossible his sitting there any longer. He then left the Council chamber. Mr. Blair, having handed over the official badge to Mr. Fitzpatrick, resigned his seat, saying he could no longer remain in view of what had taken place. He then followed Mr. Watson.

The NEW PRESIDENT expressed regret at the loss of two valuable members, and hoped that Mr. Lee would assist him (Mr. Fitzpatrick) with his presidential duties.

Mr. LEE said it had been made so abundantly clear that the majority considered him a danger to the interests of pharmacy that he (Mr. Lee) would resign, and thereupon left the room.

Dr. MITCHELL characterised the voting as scandalous. The usual committees were appointed. A proposal to amend the Preliminary examination regulations was postponed. A proposal to make "The Irish Chemist and Druggist" the official organ of the Society was referred to the House Committee.

In view of the objection of some members to change the routine business, a proposal was passed to ask Messrs. Blair, Watson and Lee to reconsider their resignations.

second in the Preliminary Scientific examination; H. Ward and F. G. Butlin, first and second in the Chemist and Druggist examination. A special prize was awarded to E. H. Ward as the best student.

Manchester.—The Manchester and Salford Branch (Junior Section) held a meeting on September 27, when a paper was read by Councillor R. G. Edwards on *Advertising*, and one by Mr. J. Cleworth on *Window Dressing*. Mr. Edwards introduced the subject by a brief history of advertising, discussing the various methods which can be used, and giving examples from his own experience. Mr. J. Cleworth showed photographs of many prize-winning window displays. A discussion followed, in which many of the members took part, and a vote of thanks was afterwards proposed to the speakers.

Metropolitan (E.).—The annual meeting of the East Metropolitan Branch was held on October 5, the retiring chairman (Mr. L. A. E. Kirkpatrick) presiding. The election of officers took place as follows: *Chairman*, Mr. Alexander Catto (Ilford); *Vice-Chairman*, Mr. James Thomson (Manor Park); *Secretary*, Mr. W. E. Gaze; *Treasurer*, Mr. C. A. Pratt; *Auditor*, Mr. G. A. Tocher; *Committee*, Messrs. W. T. Graham (Manor Park), W. Gray (Walthamstow), S. C. Jones (Canning Town), L. Kirkpatrick (Upton Manor), R. G. Murrison (Goodmayes), E. Raynor (Leyton), J. Reed (West Ham), and the chairman of the East London Pharmacists' Association. Mr. W. Gray proposed a vote of thanks and congratulated Mr. Kirkpatrick on the able way he had carried out his duties as chairman during the year. The secretary, treasurer, auditor and committee were also thanked for their services. The reports of the delegates to the British Pharmaceutical Conference were then given. Mr. S. C. Jones referred to the model apprentice and super-pharmacist of the future, and Mr. J. Reed was concerned as to what the Society would do with the huge number of unqualified chemists.

Sheffield.—A meeting of the Sheffield Branch was held on September 23, Mr. J. Gilbert Jackson in the chair. The retiring members of the Executive were re-elected, the new officers to be nominated by the Executive at the first meeting. The secretary's report was read, which dealt with the progress of the League of ex-Service Pharmacists, various correspondence and transactions, the proposed Department of Pharmacy at Sheffield University, and the Izal scholarship. The report was adopted, also was the treasurer's report showing a balance of about £44 in hand. Mr. Aplay, sales manager to Newton Chambers, Ltd., spoke briefly on the Izal scholarship. A vote of thanks was extended to Messrs. Newton Chambers for their generosity. The secretary then gave his paper on *Local Pharmaceutical Education Facilities*. He pointed out that Sheffield in former years had its own school of pharmacy with about forty students. Today there is only a school recognised for Part I, which was entirely inadequate. Sheffield University offered the only available facility for bettering the education of the students, and the University scheme was put forward. A discussion followed, and the following resolutions were passed:—That the Education Committee of the Pharmaceutical Society be asked to receive a deputation on the question of the University of Sheffield being recognised for Parts I and II of the Society's examinations; that the members of the branch use every endeavour to secure pupils for the proposed University classes. Mr. Antcliffe said if the existing Part I classes were unsatisfactory it was the duty of the branch to see that the matter was put right, and he moved that the Society be asked to send down a representative to meet Messrs. Hammond, Hindle and MacConnachie, with a view to interviewing the local education authorities. These were carried unanimously.

London (S.W.).—The South-West Metropolitan Branch have elected the following officers for this session:—*Chairman*, Mr. W. F. Gulliver; *Vice-Chairman*, Mr. J. E. Monaghan; *Treasurer*, Mr. T. Beech; *Secretary*, Mr. A. J. Jones, 16 Lingwell Road, Upper Tooting.

Leicester.—The opening meeting of the season of the Leicester and Leicestershire Branch took place at the Technical College on September 28. Prizes were presented by the chairman (Mr. A. E. Young) to the following students: H. Ward and G. Whitmore, first and

GERMAN DYES IN U.S.—The purchase by the Chemical Foundation, Inc., of more than 5,000 German dye patents, valued at over seven million dollars (£1,400,000), from the Custodian of Alien Property, who seized them during the war on behalf of the United States Government, and received for them 271,000 dollars (£54,200), has been pronounced legal by the Supreme Court of the United States.

Modern Physico-Chemistry and its Pharmaceutical Applications

By W. A. Whatmough

XLIV. Heat a Mode of Motion (or Ethereal Dynamics)—XII

Any change in motion corresponds to the conception of acceleration representable by a time curve of increment or decrement, as in Fig. 58 (Article XLII). The changing slope of such a curve enables the mathematician (with the aid of differential calculus) to materialise forces acting in and across "empty" space. These forces are denoted attractive or repulsive, electrical, centrifugal, or gravitational to fit in with theoretical calculations (which also invents force fields and fixes imaginary values therefor). Such convenient fictions enable the metaphysical physicist to propagate "forces" at will in any direction and to provide "potential" gradients in an immaterial medium (see also Article XXII). The insistence throughout these articles upon the arbitrary character of standards and the imaginary nature of mathematical definitions is because these evade rather than solve problems in Nature. It is easy to assume that an electron is a "massive point" moving in space, but this does not provide any adequate reason for either its origin, its apparent continuity, or its difference (in inertia) from its surroundings.

All of which are readily understandable in the case of a ring electron consisting of rotating ether, as this is differentiated by its eddying motion from the streaming flow of the surrounding ether (Articles X and XI). Likewise potential is variously defined in electromagnetic theory in terms of vector fields, whilst relativity devises tensors in the attempt to couple together space and time, and designates as world lines (geodesics) the motion of matter in space (which continues without any apparent cause). Relativity presupposes that inertia is inherent to matter, and by counterbalancing this with gravitational "force" explains away the "ether" and yet succeeds in "warping" a medium, which relativists regard as virtually non-existent.

Relativity utilises "rest" mass and "proper" time, and requires these to be independent of the observer. The "proper" time or "interval" between two events is referred (from considerations of mathematical convenience) to a stationary observer, the correction to be applied for an observer in motion being $t' = t_0 \sqrt{1 - \frac{v^2}{c^2}}$, where t_0 is "proper" time and t' that measured by an observer moving with velocity, V . Similarly rest mass is related to moving mass by the relationship $m' = m_0 \sqrt{1 - \frac{v^2}{c^2}}$, as explained in Article XX.

[Relativity units are given to complete the scheme of arbitrariness. The fundamental units of relativity are the centimetre and $1/c$ second for time (where c = velocity of light). The unit of velocity is c cm. per sec., and of acceleration c^2 cm. per sec., since mass and energy are taken as mutually transformable, $1 \text{ erg} = 1/c^2 \text{ gram}$. So that absorption of 1 calorie of heat ($= 4.2 \times 10^7 \text{ ergs}$) increases the inertial mass of 1 gm. by 4.7×10^{-14} gram.]

Relativity by projecting the personality of the observer (cf. Article XLII) into motion in space proceeds further and further from reality. The mathematician, by considering the energy due to a "massive" body moving in space deals with only one-half of the truth (Article III), and proceeds to eliminate the other half by inventing forces (see above) in permanently still and empty space to account for its changing motion. The physicist also ignores practical considerations in regarding molecules as in perpetual motion in a frictionless ether (Article XXXIII). Always inconvenient practical considerations are ignored. Thus a stone resting upon a table is vested with a false "gravitational" potential because it is supposed to lose energy in falling to the ground, but actually this stone is pressing into the table, and must be lifted out of this hollow before it can fall. A true potential gradient appears whenever energy is flowing, and if motion in space be identified with the flow of ether itself, then ethereal dynamics becomes a study

in energetics embodying the simplest principles of relative motion, viz. :—

"Work is done by or on something . . . and work can only be done against a resistance. (Article III.)

"Work involves relative displacement of a 'body' to a 'fluid medium.' (Article IV.)

"Work is a circulation of energy. . . . "Doing work sets up a difference of potential, and work being done reduces the potential, and always energy circulates whilst work is in progress." (Article V.)

Any streamline flow of water or air is typical of an energy flux (of ether) for the difference in rate of flow between any two points is measured by the difference in potential, which comes into existence whenever a flow begins. This changes with every variation in flow, and furthermore, illustrates the beautiful inconstancy of Nature in being different between any two points. A temperature gradient (or potential) also comes into existence whenever heat exchanges are proceeding (cf. Articles XXIV and XLIII). Another peculiarity which the flow of heat shares with fluid flow in general is a logarithmic distribution of intensity of flow, following continuous increase or decrease of resistance thereto. Compare the penetration of "heat" (Fig. 50, Article XXX) with fluid flow (Fig. 9, Article X). In both illustrations "averaged" effects in accord with statistical mechanics are shown, but this creates an impression of uniformity which is precisely contrary to the graded (logarithmic) distribution of the actual flow of energy. E. F. Northrup finds that penetration of heat decreases with the resistivity of the material and increases as the square root of the frequency of vibration. These correspond precisely to equilibrium conditions in fluid flow (i.e., area of flow tube and pressure difference—Article X), and afford a striking confirmation of the principle of potential outlined above.

The linkage between relative motion of radiation and radiator in heat exchanges comprises a part only of a wider region of radiant energy transformations. The conspectus below of sciences normally studied separately shows that these are just phases of a universal physico-chemistry, and combine into those ethereal dynamics which can only be explained in the fluid flow of ether relative to matter :—

Subdivision of science	Form of change in energy equilibrium between factors C and I	Spatial distribution of matter = electron density or capacity factor (C)	Equilibrium factor of ethereal flow = resistance or intensity factor (I)
Physico-chemical activation	Radiation (absorption or emission)	Number of vibrating electrons	Electromagnetic pulses of high frequency (due to electronic agitation)
Heat (including thermodynamics)	Thermal	Molecular arrangement in space (i.e. electronic and atomic)	Electromagnetic pulses of low frequency (molecular agitation)
Gaseous motion (kinetic theory)	Volumic	Molecules (inertia evident when intensity of ethereal flow changes)	Temperature (= mobile equilibrium of matter in space)
Electricity ..	Electrical	Electrons in relative motion	Electrical potential (= E.M.F. or electromotive force)
Chemistry ..	Chemical	Atoms uniting or dissociating	Valency (= electronic affinity)
Biochemistry ..	Superficial	Atomic arrangements (spacings) at separating surfaces	Interfacial (or "surface") tension

The simple physico-chemical scheme above makes it possible to identify and conjoin two otherwise intangible physical entities, namely, the intensity and capacity factors employed in calculating energy transformations. It is obvious at a glance that the intensity factor is also the "time" factor or pulsation frequency in a flow of ethereal energy, whilst the capacity factor is the spatial distribution of matter. Both are conjoined in relative motion, and, as stated in Article V, such "displacement" of an energy equilibrium "embodies the relationship of both body and medium to space, time, and matter, and their mutual effect cannot be separated without disturbing the harmony of natural motion."

Festivities

S.W. London Whist Drive and Dance

THE South-West London Chemists' Association opened the winter session on October 6 with a whist drive and dance. Mr. G. B. Brook acted as M.C., and Mr. W. K. Fitch conducted the whist drive; at the end of the evening Mrs. Wells presented the various prizes for whist and the spot waltzes. The President (Mr. F. G. Wells) then thanked those present for their support, and passed a vote of thanks to the Social Committee for their work in organising the successful evening. The whist prize-winners were: *Ladies*, Mrs. Martin, Mrs. Platt, Mrs. Sharwood, Mrs. Hill. *Gentlemen*, Mr. Farrow, Mr. Stump, Mr. Winnott, Mr. Martin. The winners of spot waltzes were Mr. and Mrs. Castle, Miss Knight, and Mr. Williams.

St. Vincent Association Dinner

THIS year's dinner of the St. Vincent Association was held at the Hotel Great Central, London, N.W., on October 7, the President, Mr. H. G. Mumford, who was present against the advice of his doctor, occupying the chair. The event also celebrated the coming of age of the Association. The attendance numbered nearly 100, and telegrams and letters from absent members were read from, among others, Mr. G. H. Zeal, who was leaving for Japan on the following day, and Mr. Lionel Cooper. Mr. H. E. Curtis, the Vice-President, who acted as M.C., in proposing the toast of "The St. Vincent Association," briefly reviewed the objects and the history of the Association. After referring to the comradeship among the members, he declared that the success that had attended their efforts was due in no small measure to the officers. Apart from Presidents and treasurers, they had had only one secretary, Mr. J. R. Bailey, and they did not want another—they would never get another like him. His work on their behalf had been onerous, and was highly appreciated. In his reply, Mr. Bailey said his efforts had been more than repaid by the friendships he had formed. Success, he considered, was not solely due to individuals, but also to the rank and file. "The Ladies and the Visitors" was given by Mr. Becket, and responded to by Mr. Ferris Scott. An excellent musical programme was contributed by, among others, Mr. Richie Mumford. The collection for the Association's benevolent fund amounted to £6 4s. 6d.

West London Pharmacists' Reunion

ON October 7, Mr. C. G. Bonner (President) and Mrs. Bonner received a record number of guests (about 150) at Slater's Restaurant, Oxford Street, W., the occasion being the annual reunion of the London (Western) Pharmacists' Association, which took the agreeable form of a supper and whist drive. The company included three Councillors of the Pharmaceutical Society, Mrs. Freke, Mr. Edmund White (with whom was Mrs. White), and Mr. A. R. Melhuish (with Mrs. Melhuish). There was likewise an array of past-Presidents, including Mr. C. A. Noble (with Mrs. Noble), Mr. W. Browne (with Mrs. Browne), Mr. W. E. D. Shirtliff (with Mrs. Shirtliff), Mr. Harry Martin, and Mr. J. P. Ellerington. Others present included Mr. and Mrs. B. M. Wilkinson, Mr. N. H. Schollar, Mr. and Mrs. Morley Taylor, Miss Dennis Hayes, and Mr. W. B. Falding. As an interlude to the first part of the proceedings, Mr. Bonner presented to Mr. Morley Taylor, on behalf of the Association, a piece of silver as a mark of their appreciation of his services and in honour of his recent marriage. The humorous speech with which Mr. Morley Taylor accepted the gift was a feature of the evening's entertainment. After an hour spent at whist, Mr. W. Wilkinson, at the request of the President, explained the result of the bowls competition, and announced that the winner of the Shirtliff cup this year was Mr. J. H. Gower, while the Feltwell Handicap cup was won by Mr. H. W. Baker. The result of the whist play gave prizes to the following ladies: Mrs. H. H. Robbins, Mrs. J. M. Jones, Miss Bonner, and Mrs. Curtis. The lucky gentlemen were: Mr. W. E. Kay, Mr. W. E. D. Shirtliff, Mr. Hicks, and Mr. J. P. Ellerington.

Personalities

MR. R. H. PICKARD, D.Sc., F.R.S., has been elected to serve as a member of the Senate of the convocation of the University of London. Dr. Pickard was elected by the registered graduates in science, and obtained more than double the number of votes of the next candidate.

WHILE motoring to Brickhowell, in foggy weather, on October 6, Mr. T. J. Stanley Jukes, representative of Francis Newbery & Sons, Ltd., druggists' sundriesmen, London, met with an accident at Glanusk. After receiving attention, Mr. Jukes was able to proceed to his destination.

J. M. SMITH & CO. (LONDON), LTD., Hampton Chemical Works, Arthur Street, Old Kent Road, London, S.E.15, inform us that Mr. Austin De P. Ogier has terminated his engagement with them, and has now no authority or connection with the company or any of its subsidiaries.

AMONG the South African representatives who attended the recent unveiling ceremony of the Delville Wood memorial to the South African Brigade was Mr. Norman Rivett, of Hermanns, son of Mr. A. J. Rivett, chemist and druggist, Wynberg, Cape Colony. Mr. and Mrs. N. Rivett are now taking a holiday in this country, prior to further engagements in France and Belgium. Mr. Rivett, who came over with the first South African contingent, was in the fighting at Delville Wood, where he was wounded and taken prisoner. He reports his father to be suffering from an old ear trouble.

MANY chemists, and particularly members of the Western Pharmacists' Association, will learn with regret that Mr. J. P. Ellerington, Ph.C., is retiring from active participation in business. Mr. Ellerington was one of the most popular Presidents that the Western Pharmacists' Association has ever had, and his genial presence at its gatherings will be much missed. For many years Mr. Ellerington, in association with Mr. G. H. Scott, chemist and druggist, has carried on eight businesses in the West End of London. Having had considerable Continental experience before starting on his own account, his knowledge of languages and his wide reading not only stood him in good stead from a business point of view, but also made him a delightful companion. He proposes to spend part of this winter on the French Riviera, afterwards proceeding to Rome. The business is being carried on under the direction of Mr. Scott.

SIR WILLIAM GLYN-JONES, who is in London on a visit from Canada, returns from Liverpool on October 16. The Proprietary Articles Trade Association at their last meeting appointed him chairman of the council, Sir William having resigned his position of secretary. The new offices of the Association at 43 Gordon Square, London, W.C.1, were finished before Sir William arrived on his visit. The offices are more commodious than the old premises. A feature of the building, which has been completely re-decorated, is the excellent taste with which the work has been carried out. New furniture and carpets have been introduced, the impression conveyed to visitors, calling to arrange protected prices, being that the Association is an important and prosperous one. The sketch of Sir William Glyn-Jones reproduced here was made by Mr. A. F. Meers, one of the staff of the "Montcalm" during the recent voyage to this country. Those who know the subject will recognise that the artist has succeeded in limning Sir William in a very characteristic attitude. Sir William's position as secretary is to be filled by the appointment of two officials, to represent the wholesalers and retailers respectively.



Deaths

ATKINS.—At Castle Hill, Todmorden, on September 28, Mr. Alfred Edward Atkins, chemist and druggist. Mr. Atkins, who qualified in 1883, was in business at Todmorden for more than twenty years.

COLLING.—At Brighton, on October 1, Mr. Herbert Colling, chemist and druggist, aged seventy-one.

DE PEAR.—At 19 Highbury Quadrant, London, N.5, on September 24, Mr. John Thomas De Pear, chemist and druggist, aged seventy-seven.

DODGE.—On September 27, Mr. F. E. Dodge, of Dodge & Olcott Co., essential oil distillers, New York, aged eighty-five. Mr. Dodge, who was for over forty years with the company, retired recently and was appointed honorary president.

GREIG.—At Galashiels, on October 6, suddenly, Mr. John Greig, chemist and druggist, 386 Byres Road, Glasgow, representative in Scotland of Allen & Hanburys, Ltd., London, E.2, aged fifty-one. Mr. Greig qualified in 1897, and was for some years in business on his own account, first in Dundee and afterwards at Maybole. At the Dundee meeting of the British Pharmaceutical Conference in 1902 Mrs. Greig was a member of the ladies' committee. Mr. Greig, who had been with Messrs. Allen & Hanburys for eighteen years, and was previously with Burroughs Wellcome & Co., London, E.C.1, leaves a widow, a son and a daughter. A Scottish correspondent (11/10) writes: "Wide in his knowledge of pharmaceutical affairs, above all else an optimist, he never hesitated in giving helpful advice on business matters. Mere words cannot express the esteem in which he was held." The remains were cremated at the Western Necropolis, Glasgow, on October 9.

GRIGOR.—At Sydney, New South Wales, on August 13, Margaret Anderson Grigor, wife of Mr. William George Grigor, chemist and druggist (formerly of Elgin, Scotland), aged sixty-six.

HALL.—At his residence, 20 Victoria Street, Littleborough, on October 3, Mr. Samuel Hall, chemist and druggist, aged eighty. Mr. Hall carried on business in Littleborough for a long period.

NICHOLLS.—At Birmingham, on September 18, Mr. Theophilus Henry Nicholls, chemist and druggist, aged forty-seven.

O'NEILL.—At Maghera, co. Derry, on October 8, Mr. James Edwin O'Neill, J.P., chemist and druggist, aged sixty-five. Mr. O'Neill contracted ptomaine poisoning on a visit to Glasgow a few weeks ago, and illness prevented his attendance at the annual meeting of the Pharmaceutical Society of Northern Ireland on October 4. He served his articles with the late Mr. James Brown, solicitor, Magherafelt, but was afterwards induced to enter the drug trade, and passed his examination in 1891. He set up for himself in his native town of Maghera, the business soon becoming one of the largest in the Northwest of Ireland. Mr. O'Neill was a member of the Chemists' and Druggists' Society of Ireland from its inauguration and served for a considerable time as one of the Vice-Presidents. When the Pharmaceutical Council of Northern Ireland was set up last year he was nominated by the Ministry of Home Affairs as one of the druggists' representatives. (A photograph of the councillors appeared in the *C. & D.*, II, 1925, p. 819.) His work in committee was most valuable, and his death will leave a blank not easily filled. Mr. O'Neill took a prominent part in public affairs, being vice-chairman of Londonderry County Council, a magistrate of the county, and chairman of the Technical Committee. He was chairman of the Derry Journal, Ltd., and was esteemed by all classes of the community. Mr. O'Neill is survived by a widow. The chemists' societies referred to were represented at the funeral by Mr. Fred Storey and Mr. J. Moffet.

PESCOD.—At 60 Osborne Avenue, Newcastle-upon-Tyne, on October 7, Mr. William Pescod, chemist and druggist, aged sixty-four. Mr. Pescod served his apprenticeship with Mawson & Proctor, Grey Street, and qualified in 1887. He was for many years in business in Heaton Park Road, and was secretary to the Newcastle Chemists' Association

for upwards of thirteen years. He afterwards continued to take an active interest in local pharmaceutical matters and was an honorary auditor to the local branch of the Pharmaceutical Society, in addition to being its representative to the Newcastle Chamber of Commerce. The following representatives of pharmacy were at the interment at All Saints' Cemetery on October 9: Mr. Cubey (Blaydon); Messrs. Buckley and H. S. Williamson (North Shields); Mr. Wray (Lemington); Mr. Wright (Alston); Mr. J. F. Simpson (Felling); Mr. C. E. Layne (hon. solicitor to the local branch); and Messrs. Dennison, Flemming, Graham, Hepworth, Noble, Park, Roper and Russell (Newcastle).

SIMMS.—At St. Martin's Square, Scarborough, on September 27, Mr. Robert John Simms, chemist and druggist, aged eighty-two. Mr. Simms served his apprenticeship with Boyes & Allen, King's Lynn, and subsequently had a wholesale experience in London. After his registration as a chemist and druggist he held retail posts at Exeter, Stourbridge and Dover prior to commencing business on his own account in Ramshill Road, Scarborough, in 1872. Of late years he had been assisted by one of his daughters.

SLEIGH.—On October 4, following a motor-cycling accident, Mr. Donald Willis Sleigh, first officer Asiatic Steam Navigation Co., nephew of Mr. Fredk. B. Sleigh, M.P.S., Willenhall and Tettenhall, Staffs.

Wills

MR. MORRIS DAVIES MORRIS, chemist and druggist, Meifod, Montgomery, who died on May 31, left estate of the gross value of £2,706 6s. 3d., with net personality £1,771 6s. 3d.

MR. WALTER CHARLES MARSHALL, chemist and druggist, Grenville Mead Walk, Anlaby, Kingston on Hull, died on June 27, leaving £6,673 18s. 3d., with net personality £5,740 6s.

MR. LORENZO VALENCIA ANGEL, M.R.C.S., L.R.C.P., chemist and druggist, 235 Boundary Street, Liverpool, who died on May 24, left estate of the gross value of £2,091 4s. 4d., with net personality £524 10s. 1d.

MR. FRANCIS BLAKE WRIDE, chemist and druggist, Park Lodge, Carlton Road, Southampton, who died on April 13, left estate of the gross value of £25,994 1s. 2d., with net personality £14,700 7s. 6d. Probate has been granted to his widow, Mrs. Margaret Wride, the sole executrix.

MR. HERBERT ABRAHAM, chemist and druggist, 15 East Street, Taunton, a director of Gregory & Wrenn, Ltd., who died on September 6, left estate of the gross value of £1,197 4s. 7d., with net personality £1,174 14s. 7d. Probate has been granted to his widow, Mrs. Mary Abraham, the sole executrix.

MR. PERCIVAL JOHN NEILL GELSTON, chemist and druggist, West Lea, Winchester Road, Basingstoke, who died on July 28, left estate of the gross value of £4,316 12s. 2d., with net personality £3,384 14s. Probate has been granted to his son, Mr. Arthur P. Gelston, and Mr. E. T. Harris, 123 Winchester Road, Basingstoke.

MR. STEPHEN HOPKINSON, chemist and druggist, The Liddett, Edwinstowe, Notts, formerly in business at Chesterfield and Bolsover, who died on May 23, left estate of the gross value of £3,546 2s. 6d., with net personality £347 10s. 7d. Probate has been granted to his son, William Hopkinson, his widow, Mrs. Alice Hopkinson, and his daughter, Miss Ellen Oldham Hopkinson.

SHARING THE COST.—Newton Abbot, in adopting a scheme of town advertising, has hit upon a novel method of apportioning the charges. A committee of the chamber of commerce has been appointed to assess each trader, having regard particularly to the additional amount of business likely to be derived from visitors as the result of the advertising; this assessment is to be regarded as the amount of the trader's annual subscription.

Trade Notes

LABEL PRINTING.—J. B. Ward & Co., chemists' printers, 15 Chapel Lane, Hull, invite chemists to send for quotations for labels.

LORIMER-MARSHALL, LTD., 12 Tower Hill, London, E.C.3, have published a new edition of their price list of packed goods.

THE ERASIC CO., LTD., Warrington, have been awarded a silver medal diploma at the exhibition held this month at Port Louis, Mauritius.

SAFETY RAZOR BLADES which retail at 3d. each, and are yet of the best British make, are offered by Mr. G. Smith, 237 Mere Road, Leicester, who is the sole concessionnaire for the "Sheffield Guaranteed" blade.

BETA BANDAGE.—Russell & Co., 114 Cheapside, London, E.C.4, have introduced a special form of antiseptic bandage for use in case of cuts and abrasions. Trade terms and particulars will be sent on application.

THE EXHIBIT of Schering, Ltd., 3 Lloyd's Avenue, London, E.C.3, at the Medical Exhibition did not contain photographic developers, as inadvertently stated last week. The exhibits were Atophan, Veramone, Medinal (in cachets) and Neo-hormonal.

OSRAM LAMPS.—The General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2, have sent us a copy of a new pamphlet, "The Story of the Osram Lamp." This should appeal to all users of electricity for lighting purposes on account of the interesting details it gives of the manufacture.

DIGITALIS LEAF.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.1, who some time ago introduced Tabloid digitalis leaf gr. j., have now brought out a product containing gr. ss. This meets the requirements of medical practitioners who require to exercise caution in administration of this remedy.

ZENOBIA LIST.—Zenobia, Ltd., Loughborough, have published a new wholesale list which contains many lines suitable for Christmas trade. This contains illustrations and prices of perfumes, soaps, sachets and other toilet articles, and is beautifully produced. We note a new offer of display stands for certain quantities of perfume, tooth paste, shaving soap, etc., which is a good idea for promoting sales.

TAKITAK is a tree-banding material made by Craven & Co., horticultural chemists, Evesham, which forms a useful introduction by chemists to that section of the public interested in fruit-growing. Chemists who have not developed the agri-horticultural side of their business and who require to extend the range of side-lines should consider seriously the possibilities of working up in their district a trade in these goods.

NEW TABLET PACKING.—Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, are meeting the demand that exists in industrial areas for cheaper-priced packages of tablets. The company have produced aspirin, cascara, headache and antibilious tablets in tubes retailing at 3d. each. The tubes are packed in outer cases of a dozen and are attractive in appearance. It should be remembered that a class of customers, such as travellers and weekenders, often require to take with them a small supply of tablet medicaments. Moreover, the small tube should often lead to the sale of a normal package of tablets.

FLUKE IN SHEEP.—The newest treatment of liver fluke in sheep is the administration of carbon tetrachloride, which has proved very successful in cases where it has been tried. It is necessary, however, to employ a pure form of the medicament or dangerous symptoms may be caused. The British Drug Houses, Ltd., Graham Street, London, N.1, make an extra pure quality of carbon tetrachloride, which has been employed in the treatment of hookworm infestation of human beings. The company are now packing this in capsules of 5 gm. especially for administration to sheep. Each capsule is the correct dose for a sheep over six months old, and the ample directions for use given on the package show that the subject has reached a stage when definite results may be predicted. The capsules are packed in boxes of 10, 50 and 100, selling at 2s. 3d., 9s., and 17s. a box. A descriptive circular has also been printed which emphasises the properties of the remedy.

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1926, p. 309.

(From "The Trade-marks Journal," September 22, 1926.)

"FLORILETTE"; for perfumes (48). By J. Maud, 84 New

North Road, London, N.1. 471,117.

"DOMARIE"; for perfumery, etc. (48). By Dorothy M. I. Grant, "Glencorse," 8 Somerset Road, Newport, 470,158.

"NALGIRI"; for perfumery, etc. (48). By The Kolynos Co., 150 Bristol Street, New Haven, Conn., U.S.A. 471,041.

(From "The Trade-marks Journal," September 29, 1926.)

"FRUCTINES-VICHY" on label device with oval seal ("Vichy" and seal device disclaimed); for a pharmaceutical product (3). By Lauriat & Cie, 5 Place des Ternes, Paris. 466,831. (Associated.)

"GASODA" on oblong strip; for medicines for indigestion, etc. (48). By Hance Brothers & White, Inc., Corner of Marshall and Callohill Streets, Philadelphia, U.S.A. 472,002.

RED POPPY CORN CAPS with device including poppy; for corn preparations (3). By Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1. 472,373.

"BRONTIK"; for medicinal chemicals (3). By J. Stanley, 10 Clarendon Road, Harrow. 472,517.

"W. J. RENDELL'S SOLUBLE PESSARIES" on label device, including facsimile signature "W. J. Rendell"; for medicated pessaries (3). By W. J. Rendell, 13 Chadwell Street, Clerkenwell, London, E.C.1. 472,751. (Associated.)

"HILIX," "MONTIX," and "TRANSPOSIX"; for photographic apparatus (8). By Montix, Ltd., 87 Regent Street, London, W.1. 471,637/711; 472,841.

"ELIDA"; for surgical rubber goods, etc. (11). By O. Dillner, 30 Torgauerstrasse, Leipzig-Neusellerhausen, Germany. 470,961. (Associated.)

"TRIANGLE"; for mineral waters, etc. (44). By The Apollinaris Co., Ltd., 4 Stratford Place, Oxford Street, London, W.1. 472,513. (Associated.)

"D'ORSAY"; for perfumery, etc. (48). By Compagnie Francaise des Parfums D'Orsay, Chateau des Bouvets, Puteaux, France. B448,963.

"AH-MAR-ME"; for perfumery, etc. (48). By Prichard & Constance (Wholesale), Ltd., 11 Broad Street, High Holborn, London, W.C.2. 461,704. (Associated.)

"JOHANN MARIA FARINA GEGENÜBER DEM JULICH'S-PLATZ" on device, including crest in circle and tulip-like flower (flower device and word "Farina" disclaimed); for all goods (48). By Johann Maria Farina Gegenüber Dem Jülichs-Platz, Cologne, Germany. 470,896. (Associated.)

"LIB-YANA"; for perfumery, etc. (48). By Braham & Maurer, Ltd., 12 Holborn Viaduct, London, E.C.1. 471,308.

"MISCILLA"; for perfumery, etc. (48). By Danish Soap Industry, Ltd., 49a Old Bailey, London, E.C.4. 472,395.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

G/210. Brotella	S/910. Radio-active Paraffin
H/299. Cement de Khotinsky	N/1310. Raz-Mah Capsules (present address)
M/1310. Jung's Wonder Arch Support	M/1210. Seamless Rubber Co.'s Hot-water Bottles, London agents
H/910. Churchill's Sprays	
A/1210. Kalosyl	
W/1110. Pinoxic	

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.4.

Buteson Picrate. D/1310 Oxien Tablets. S/610

Collargol. E/1110 Physikurate. A/1110

Dol's Volatilised Flannel. Radio Phosforate of Potash.

A/1110 W/1110

Hydronaphthol. D/1210 Sajodin. N/719

Klensall. L/1110 Saville's June Perfumes.

Oliver's Foot Drafts. B/1210 W/810

THE number of receiving orders and administration orders gazetted in England and Wales during the nine months ended September 30 is 3,237, compared with 3,633 and 3,624 respectively in the corresponding period of the years 1924 and 1925.

Observations and Reflections

By Xrayser III

Dr. J. F. Tocher's Address

was worthy of the occasion, full of interest to the students who heard it, and no less interesting to practising pharmacists generally. It was, in fact, the sort of address which is peculiarly appropriate at the beginning of the pharmaceutical academic year, and at the outset of a new session, when the associations are about to wake up and give further attention to business matters. Coming to details, I must confess to some little disappointment at Dr. Tocher's apparent weakness on the subject of our titles. He thinks it is open to doubt whether it is in our best interests to continue to give ourselves double names, presumably such as "chemist and druggist," or "pharmacist and chemist." One would like to know why, also, if Dr. Tocher's statement on the scope of the pharmacist's work (*C. & D.*, October 9, p. 569) is intended to define the limits of our occupation. If so, he might have gone a little further and told us how in such circumstances we are to make a living. Were all dispensing of medicines restricted by law to pharmacists the profits of this work alone would not suffice to maintain all of us, and none of us would be particularly well off. If a further step were taken, and the sale of all medicaments, as well as the dispensing of all medicines, restricted to pharmacists, the prospect would perhaps be more encouraging, but I doubt if even then we should be willing to drop profitable side-lines. After all, pure pharmacy can only be made to constitute the nucleus of a remunerative business. Apart from this, however, I wish to end on a grateful note, as I think we are all greatly indebted to Dr. Tocher for his stimulating remarks.

A Great Danger

to the public it will indeed be, as you observe (*C. & D.*, October 9, p. 575), if any Government department ever secures power to administer the pharmacy laws of this country; and I welcome your remarks on this subject, which are none too forcible. In view of the various rumours regarding the supposed objects of those responsible for setting up the Departmental Committee on Poisons, the occasion seems opportune for some straight talking on our behalf, and it is delightful to note how you are setting the pace in this respect. Your survey of the functions of Pharmacy Boards throughout the British Empire should prove invaluable at the present time, particularly if your hope is realised and you are able to show that chemists, as the proper experts, have complete control in those bodies. It ought to be made clear by those who represent us in this inquiry that chemists in Great Britain intend to retain control of their own affairs, and will strongly resent any attempt at usurpation of control by either Government departments or medical bodies.

One Point You Stress

is, I think, of peculiar importance. Administration of the pharmacy laws in Great Britain has never cost the country a penny. Not only has the Pharmaceutical Society administered the laws efficiently; it has also provided all the necessary funds, and is presumably prepared to continue doing so, provided it retains administrative control. With a Government department in control, or a body specially set up for the purpose and including Government nominees and medical representatives, the moneys required would have to be provided by Parliament. But the time is not propitious for that. If there should be any lurking idea in official minds that the funds of the Pharmaceutical Society would still be available for administrative purposes, though the control no longer rested with the Society, the members of the latter body might be expected to protest against any such idea in no uncertain manner. As to the imposition of an additional licence fee for carrying on business, that—as you suggest—would have to be accompanied by some *quid pro quo*, and even then I should have doubts whether sufficient funds would be provided.

George Canning,

a hundred years ago, put into the King's mouth the statement that "I have called the New World into existence to redress the balance of the Old World." But the New World was affecting the balance of the Old in innumerable ways during three hundred years antecedent to George IV. The recognition of such possibilities took place very soon after the exploits of Columbus. That Columbus was the innocent means of introducing syphilis into Europe, as stated by Nicholas Monardes, is a statement which we may not accept to-day without many qualifications. However, Monardes believed that he stated the fact; and it must have seemed to him to be appropriate that the remedy for it should have been found in San Domingo, from whence Columbus carried his infected Indians to Naples. Guaiacum was introduced into Europe from the West Indies as the great remedy for this venereal trouble. In the words of Monardes (John Frampton's translation, 1577):—"The Guaiacum that is called the wood of the Indies, was discovered forthwith, when the firste Indias was founde, whiche was the Ilande of Sancto Domingo, where is great quantitie thereof. There was an Indian that gave knowledge thereof to his Maister, in this maner. A Spanyarde that did suffer greate paines of the Poxe . . . but his seruante beyng one of the Phisitions of that countrie, gave unto hym the water of Guaiacan, wherewith not onely his greevious paines were taken awaie that he did suffer, but healed verie well of the evill."

Gonzalo Fernandez de Oviedo y Valdés

was the name of this gentleman, who, we are told, finding no cure in Europe, set out, at the beginning of the sixteenth century, for the West Indies (where, he understood, the complaint was as common as measles and small pox in Europe), in the expectation of finding the remedy he required. He was introduced to the Guayacum tree, of which he gave an account in his "Historia General y Natural de las Indias," published in 1526. Fernandez, or Oviedo as he is sometimes called, imported his new medicine into Spain from San Domingo, and made a monopoly of it by strictly guarding the secret, and also made a rapid fortune by the many cures it is stated he effected. The reputation of this drug became so extensive that the literature of medicine in the early part of the sixteenth century seems to be saturated with accounts of the cures obtained with it.

The First Publication

of the virtues of guaiacum was not made by the secretive and avaricious Fernandez, but by Leonard Schmaus in 1518; a further work appeared in the following year, by that unfortunate humanist and reformer Ulrich von Hutten, under the title of "De Guaiaci Medicina et Morbo Gallico." Hutten's book provided the first account in English, because it was translated by Thomas Payne in 1536:—"On the Wood called Guayacum that healeth the French poxes, and also helpeth the Goute in the Feete, the Stone, the Palsey, Lepree, Dropsy, Fallynge Euyll, and other diseases." Five years ago Mr. Marshall Montgomery contributed a paper to the Royal Society of Medicine (Section of the History of Medicine), in which he endeavoured to show that the "cursed hebona" of Shakespeare's "Hamlet" was possibly intended for guaiacum. He assembled many passages from authors of the early part of the sixteenth century to show (1) that guaiacum was then regarded as a dangerous, even a poisonous, drug, and (2) that this substance was known as "hebena," "ebano," etc., names which were given to it because it was regarded as a variety of ebony. Mr. Montgomery made use of Dr. Strauss' "Life of Hutten" to prove his point that guaiacum was popularly believed to be a poison; for Dr. Strauss records that many people actually stated that Hutten's death was due to the "mörderische guaiak-cur." That guaiacum (lignum vita or lignum sanctum) occupied a prominent position in the practice of medicine as a powerful drug in the time of Shakespeare is as much as one can concede to Mr. Montgomery.

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so much that there is not the least difficulty in getting them to take it.

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Editorial Articles

The Trend of Therapeutics—III

THE Therapeutics Substances Act is now a year old, and the changes it is bringing about are so gradual as to be almost imperceptible. Eventually it will result in the control of hormone therapy and chemo-therapy becoming almost entirely a matter of laboratory routine, to the detriment of intelligent clinical application. Clinical medicine is rapidly becoming concerned solely with the diagnosis of diseases and the dosage of a

remedial agent therefor which can be tolerated without undue danger or discomfort. The discovery of new antidotes (such as "antigens" in immunology) and the isolation of potent animal principles are now regarded as appertaining to bio-chemistry rather than medicine. This is due to bio-chemistry continually discovering the existence of constituents in body fluids or organs. These constitute real factors of life, because minute traces modify the processes of life to a profound extent. Enterprising manufacturers are making these available for use in medicine by isolating principles, hormones, preparing stable (gland) substances, or supplying vitamin-active products in usable form. In the near future the above Act will ensure that the medical profession and the public obtain preparations which are not only active but conform to some kind of standard. The National Institute for Medical Research has had an important influence upon international ideas and the ideals regarding biological standards, and their trend is the eminently sane and safe one of comparison with a known standard in accordance with a prescribed technique. On the other hand, the curriculum of the modern medical student is so crowded that only a superficial knowledge can be gained of newer aspects of therapy, and the tendency will continue for the medical practitioner to obtain most of his "knowledge" from advertising literature and to follow the label as regards dosage. Considering the extent to which doctors in practice are besieged with circulars on hormone therapy, the use of potent gland secretions (apart from thyroid) is surprisingly small, except possibly in the case of the comparatively inert sex hormones (ovarian substance, etc.). Apparently the latter can be continued indefinitely, on the principle that if it does no good neither does it do any harm. As regards specific (hormone) principles (adrenalin, insulin and thyroxin) their future use is far from clear. The intense activity of the first two make their administration difficult unless carefully controlled. Adrenalin in particular is used chiefly as a local haemostatic or occasionally (by injection) in asthma, but in Addison's disease, which is due to the destruction of the suprarenal glands by disease, adrenalin does not prolong life, because it is not the only controlling factor. Such failure makes one wonder if intense reactions with normal animals are an accurate guide to clinical practice. Dr. J. H. Burn and Dr. H. H. Dale have demonstrated that histamine and adrenalin are antagonistic substances, that by acting respectively as dilator and constrictor they maintain and adjust circulation of the blood to the needs of the tissues. The injection of adrenalin into the blood stream corresponds to that outpouring from living gland which accompanies undue emotional stress due to anger or fright. Obviously this latter is abnormal, and the objective of curative medicine must be to restore harmonious working of the secretory organs and the liberation of minute amounts of regulatory hormones. The trumpeting abroad of the isolation of a "cure" for a disease in the form of a controlling principle (such as insulin in diabetes) is liable to detract from the sounder practice of discovering the other linked factors of disordered metabolism. The ultimate object of medicine is preventive rather than curative, and the modern consultant is more concerned in removal of contributory causes of a disease than its temporary alleviation. The discomfort of regular injections of insulin and the need for a control of dosage by blood sugar tests makes it preferable, wherever possible, to control sugar production and utilisation by dietetic means. Educated diabetics are learning to test their own urine and arrange diets for themselves, and this is a field in which pharmacists could greatly assist the less educated sufferers. There is also a trend to demand specifications of the composition (especially carbohydrate content) of diabetic foods, and this ought to be compulsory, for unfortunately

the more palatable a diabetic bread may be, the more unsuitable it is owing to presence of carbohydrates convertible into blood sugar. The variable carbohydrate tolerance of diabetics and the necessity of carbohydrate to prevent acetonuria is apt to mislead medical practitioners into allowing the use of unsuitable diabetic preparations. It is not to the best interests of diabetic patients and reputable makers that so little of the supplies passes through chemists' shops. The pharmacist, by a test of the day's urine, could follow the progress of sugar decrease or increase with diet, and though insulin may be essential in extreme cases, frequently its need can be obviated by scientific dieting. The urgent need is to discover the fundamental causes of the disease, and the ideal to regenerate the defective glands. The fact that sugar-loving individuals are particularly prone to diabetes suggests once more a disturbance of metabolic balance, and in this connection the need for phosphates in carbohydrate metabolism is significant, since these are sadly lacking in "purified" foods. This year has witnessed the marketing of thyroxin for medicinal use in place of thyroid gland. This principle had the advantage of slow action over a prolonged period. Time will show whether precise control of dosage will lead to the principle replacing the more uncertain animal product. Though thyroxin reproduces the therapeutic action of thyroid, it is not present therein, but is produced during process of extraction. Thus the nature of the thyroxin-yielding substance is still a problem to be solved, as also what are the essential materials from its formation (presumably tryptophane and iodine). It is a curious reflection that manufacturing pharmacy is aiding bio-chemistry to obtain definite knowledge on these points which, when available, should make diet rather than medicine the cure for deranged metabolism. Apparently the pharmacy of the future is to be intimately concerned with missing food elements. The newer phases of progress in the chemistry of life are bound to affect seriously the status of pharmacy, and the drug trade as a whole will have to take an intelligent interest in the newer forms of therapeutic treatment, otherwise, like the grocery trade, chemists will become distributors of "branded" preparations without any compensating advantages professionally. The chemist in business is the one public safeguard against charlatanism in medicine, and no doubt whatever the future of medicine may be the pharmacist will continue the tradition of serving public interest rather than his own, until innumerable restrictions make it impossible. The ever-increasing regulations regarding the supply of medicament are making the ethical side of pharmacy not only unprofitable, but impracticable, and the danger therefrom is that the dispensing chemist will find out that he can use his shop space and his ability to better profit with side-lines rather than in dispensing special prescriptions, including unusual medicaments. The pharmacist will always be essential as a distributor of medicinal agents, but until the medical profession prescribe only, pharmacists in poorer districts must continue as distributors of domestic remedies to a public who prescribe for themselves.

Maneuvres in Mercury

WHILE a certain amount of manipulation has been noticeable recently in the mercury market, partly resulting from the absence of reliable information regarding the tenders, recently invited by the administration of the Spanish mines (to which reference was made in our previous two issues), it can hardly be said that there has been any real weakening in the position of the article. Spot stocks are undoubtedly small, possibly about 1,000 bottles. But all calculations are purely guess-work, and in addition there is a big deficit noted in

imports so far this year. There is reason to believe that the world's consumption in recent years has been close to, if not actually in excess of, production, and, regardless of the trade depression, the course of the spot market so far this year has been consonant with the views expressed in our issues of January 2 (pp. 19-20) and July 31 (pp. 211-212), when the position was dealt with at length. We then suggested the continuation of stringent market conditions, although previously the price was already seriously inflated. There is as yet no valid reason for assuming that consumers stand much chance of securing any concessions, despite a recent temporary reaction of about 10s. a bottle from £16 to £15 10s. There was since a renewed advance up to £16 10s. Manipulative tactics were presumably encouraged by exaggerated ideas as to the result of the much-discussed tenders for the Almaden mines output for the new financial year. As to what has actually happened, reliable information is lacking, although we understand from reliable quarters that Continental and English importing and merchant interests agreed to what is described as a reasonable price basis in order to guard against outbidding each other, and thus to resist the rather exacting minimum pretensions of the Spanish selling interests. The latter are doubtless well aware of the remarkable change which has taken place in the law of supply and demand, entirely owing to the much greater American consumption, but it remains to be seen whether their tactics, apparently designed to maintain the rationing of the London and Continental markets, will ultimately prove to be the best policy. There seems to be something approaching a tug of war between the Madrid merchant banking interests behind the Almaden mines and the chief European trade interests, whose co-operation could hardly be dispensed with under normal conditions. So far as can be gathered, the selling arrangements come to lately for the disposal of the Spanish production for the current financial year with the Sociedad General Mercurio of Madrid are similar to those made about a year ago, although it was reported that the administration of the mines were holding out for a minimum figure of £14 10s. per bottle, or substantially over the previous year's minimum, which is understood net on truck at Almadenejos. It is generally surmised that the deal went through on that basis. Much undoubtedly depends as to future market movements on the progress of American consumption, which has been the most potent factor for the last few years. In July we stated that "the fact cannot be too strongly emphasised that America is now consuming at the rate of well upward of 25,000 bottles per annum, while her total imports last year were as much as 22,781 bottles, chiefly from Spain, of which very little was left in stock at the beginning of this year." Considering that, according to our information, about 18,000 bottles have been shipped to the United States from Spain and Italy during the first nine months of this year (which would point to total imports for the year quite as heavy as for 1925), it appears as if American trade requirements continue at a record rate, absorbing at the same time the domestic output of roughly 9,000 bottles per annum. A clearer idea of the important part played by American consumption can be gathered from the official returns of American imports for the last fiscal year ended June 30, which totalled no less than 28,483 bottles, compared with the previous fiscal year's figures of only 16,309 bottles, an increase therefore of over 12,000 bottles. The stocks in American bonded warehouses on July 1 last were 1,602 bottles, or almost less than one month's requirements. While the Italian output of recent years has been maintained at the satisfactory rate of upwards of 45,000 bottles per annum, the sharp variations in the world's production

have been chiefly due to the marked irregularity noted in the yield of the Spanish mines from year to year. According to the official returns, the Almaden mines in the financial year 1924-25 produced 35,530 bottles, against only 25,051 bottles for the preceding period. No returns have yet been disclosed for the last financial year ended June 30 last, but it is hardly likely that the last returns given above have been exceeded and even reached. Since the end of June this year little has been achieved in new production, but operations at the Almaden mines have presumably been resumed since the beginning of this month, and should be again proceeding on an important scale shortly, while the high price ruling might be expected to act as a stimulus. We give below the U.K. official returns covering imports and re-exports to the end of August, which are very striking:—

		1926	1925
	In bottles	Aug.	Jan.-Aug.
U.K. imports	...	855	9,910
U.K. re-exports	...	73	1,684
U.K. net imports	...	782	8,226
			15,535
			3,328
			12,207

As indicated above, the receipts for August were very small; indeed, the aggregate for the eight months, amounting to 9,910 bottles, shows a substantial falling off against the same period last year. Considering that home consumption is normally placed at about 1,000 bottles a month, making for nine months 9,000 bottles, the fact has to be noted that our net imports for eight months were only 8,226 bottles. With the reserve stocks already referred to as being very small, in the event of a sudden increase in demand, it is to be feared that our market could again be easily manipulated at the expense of consumers. Certain importers were sellers a little while back at £15 10s., but presumably not large quantities, and as we close most sellers are asking £16 5s. to £16 10s., less usual discount.

Pharmacopœial Synthetic Camphor

THE inclusion of synthetic camphor in the new edition of the German Pharmacopœia, which thereby for the first time becomes an official article, is a matter of more than passing interest. The importance of this innovation, from the therapeutic point of view, resides in the fact that the German Pharmacopœia officially sanctions, without any reservation, the use of synthetic camphor in the place of the natural product. In view of the far-reaching consequences of this decision, we deem it opportune to give a translation of the monograph in question, which bears the title "Camphora synthetica." This is described as: The racemic form of camphor, obtained by synthesis from the pinene of oil of turpentine, and purified by sublimation or crystallisation. Colourless or white, crystalline brittle pieces, or a white, crystalline powder. Synthetic camphor possesses a peculiar penetrating odour, and a somewhat bitter, pungent taste, followed by a sensation of cold. Heated in an open capsule, it volatilises completely within a short time; on ignition it burns with a smoky flame. Very slightly soluble in water; readily soluble in ether, chloroform, alcohol and oils. Melting-point not below 170°. Synthetic camphor is optically inactive, or has only a very slight rotatory power. For a solution containing 2 grams of synthetic camphor in 10 c.c. of absolute alcohol, the optical rotation (at 20° C.) is -2° to $+5^{\circ}$. On igniting 0.1 gram of synthetic camphor on a copper foil of four square centimetres, placed in a porcelain capsule, and collecting the smoky vapour in a flask of 1,000 c.c. capacity, previously rinsed several times with water, the liquid obtained after rinsing the flask with 10 c.c. of water and filtering should, on the addition of a few drops of nitric acid and 0.5 c.c. of N/10 silver nitrate, after a lapse of five minutes, become at the most opalescent. To reduce synthetic camphor to a powder, it should first be sprinkled with ether or alcohol. [In the monograph on "Camphora"—obtained from *Cinnamomum camphora*—it is stated that "synthetic camphor may be used in the place of camphor."]

Pharmacy Boards

Their Organisation and Powers

(Continued from the C. & D., October 9, p. 565.)

SOUTH AUSTRALIA

Act No. 5 of 1862 placed restrictions on the sale of arsenic, corrosive sublimate, prussic acid, essential oil of bitter almonds, and strychnine, in addition to requiring that a label with the name of the contents and the word "Poison" be affixed to the container in which any of these poisons was delivered, this proviso being also applicable to every sale of opium, laudanum, white precipitate, red precipitate, sugar of lead, oxalic acid, zinc sulphate and Goulard's extract, without demanding any qualifications of persons handling these poisons. This measure is interesting for the fact that it is the oldest Poisons Act in the British Dominions. Act No. 509 of 1891, "to establish a Board of Pharmacy in South Australia, and to make provision for the registration of pharmaceutical chemists, and for other purposes" provided for the establishment of a Pharmacy Board consisting of seven members. The first members of the Board were appointed by the Governor to hold office until December 31, 1893, since when all the members, who hold office for three years, are elected by the pharmaceutical chemists, the whole Board being renewed at the elections held in the month of December every three years. The Board is empowered to appoint a registrar, examiners and other officers; but the salaries and remunerations paid out shall not at any time exceed the annual receipts by the Board for fees under this Act. The Board has to keep a register of the names of all persons certified by it to be duly qualified pharmaceutical chemists; a certificate of registration has to be taken out annually. If any pharmaceutical chemist be convicted of any offence which, in the opinion of the Board, renders him unfit to be on the register, it shall be the duty of the Board to erase his name. The qualifications required by the Board for granting a certificate entitling the holder to be entered upon the register and to carry on the business of a pharmaceutical chemist are set forth in the Act, which also states that the Board shall control and direct all examinations under the provisions of the Act, but such examinations may not include the theory and practice of medicine, surgery, or midwifery. A person not being a registered pharmaceutical chemist who assumes or uses the title of a pharmaceutical chemist, or dispensing chemist, or druggist, or exhibits any title, term, or sign which may be construed to mean that he is registered, renders himself liable to a penalty not exceeding £20, and in default of payment shall be liable to a term of imprisonment not exceeding six months. The Pharmacy Amendment Act, 1897, stipulates that no pharmaceutical chemist shall carry on business, or assume or use any title implying that he is registered, except during the currency of a certificate granted to him by the Board, and every pharmaceutical chemist who shall be guilty of any contravention of this provision renders himself liable to a penalty not exceeding £10. The same Act lays down that no pharmaceutical chemist shall carry on business in more than one shop unless at least one pharmaceutical chemist holding a current certificate of registration is constantly and exclusively employed at each shop; the manager of a shop or branch business of a pharmaceutical chemist must also hold a certificate, the penalty for any contravention being a fine not exceeding £20. The same penalty is incurred by any corporation or joint stock company (including friendly societies) carrying on the business of a pharmaceutical or dispensing chemist and druggist if the business is not under the management of a registered pharmacist. Pharmaceutical chemists actually in business are exempt from serving on juries; however, only one shall be exempt at the same time in the business of any one person or firm. The Board may, with the approval of the Governor, make, alter, or rescind regulations, but these shall not have any effect until they have been laid before Parliament for 21 days, and have been published in the *Gazette*. A penalty not exceeding £5 may be imposed for the breach of any regulation. The Board is empowered to

collect fees for examinations, and for the issue of the annual certificate of registration. Proceedings for any offence against this Act may be heard and determined in a summary way by any special magistrate or two Justices of the Peace. The regulations issued in 1914 relating to the sale of poisons (the Poisons Act of 1862 was repealed by the Food and Drugs Act 1908, which empowered the Governor to make regulations regarding the restriction and conditions of sale of poisons) stipulate that no person other than a legally qualified medical practitioner or a registered pharmaceutical chemist shall sell any scheduled poison unless he holds a licence from the Central Board of Health.

TASMANIA

An Act of Council of 1842 empowered the Lieutenant-Governor of Tasmania to appoint seven persons to form a Court of Medical Examiners, and stipulated that no person may vend any medicine or drug without having obtained a licence from the president and two or more members of this Court, under a penalty not exceeding £40. An amending Act of 1867 provided that no person shall incur any penalty by selling medicines or drugs at any place which is distant more than two miles from the place of business of a licensed vendor of medicines, provided the medicines or drugs be sold in unopened packages made up by, and having the label of a person in possession of the aforesaid licence. Legally qualified medical practitioners were enabled to vend medicines or drugs without obtaining a licence. The Sale and Use of Poisons Act, 1886, made it unlawful for a person other than a qualified medical practitioner, or a licensed vendor of medicines and drugs, to sell any scheduled poisons, unless he held a certificate from the Court of Medical Examiners. Such was the position when the first Pharmacy Act was passed in 1908, by which a Pharmacy Board was created, consisting of seven members elected by the pharmaceutical chemists of Tasmania. This Board was empowered to appoint a registrar, deputy-registrar, examiners, and other officers, control and direct examinations, issue certificates of qualification, charge certain fees, and also to issue the licences to vend medicines or drugs, or certificates for the sale of poisons, hitherto granted by the Court of Medical Examiners, whose powers in all these matters were transferred to the new Board. Several of these provisions were modified by the Pharmacy Amendment Act of 1910. The members of the Board to go out of office every year are the two who have been longest in office without re-election; however, in every third year the three who have been longest in office without re-election retire. A pharmaceutical chemist commits an offence: (1) if he permits any person other than another registered pharmaceutical chemist, or an assistant whom he controls and employs, to vend medicines or drugs, or compound or dispense prescriptions. (2) Keeps or maintains any place of business for the vending of medicines or drugs, or the compounding or dispensing of prescriptions, unless he or another registered pharmaceutical chemist is and continues in charge of and constantly and personally superintends the business; failure to comply with these provisions renders the offender liable to a fine not exceeding £10, in addition he may be committed to prison for any period not exceeding six months. The same penalties apply in the case of any unregistered person attempting to carry on the business of a chemist and druggist, or who uses or exhibits any name, title, etc., which might be construed to mean that he is qualified to perform the duties of a pharmaceutical chemist. Every pharmaceutical chemist who for a period exceeding three years ceases to hold an annual certificate of registration, and afterwards applies for a certificate, shall not be entitled to receive one unless he first satisfies the Board as to the circumstances under which he omitted or ceased to take out his certificate, or to practice as a pharmaceutical chemist, and as to his conduct and employment in the meantime. The Poisons Act of 1916 lays down that any person, other than a medical practitioner or a registered pharmaceutical chemist, must hold a certificate from the Pharmacy Board that he is a fit and proper person to sell poisons, under a penalty not exceeding £50, or imprisonment for any term not exceeding twelve months. This certificate is valid only for the year in which it is issued, and is granted, on payment to the Board of a fee of 5s., only to persons in places at least five miles distant from the nearest pharmacy. A licensed

dealer in poisons may sell these only in unopened packages bearing the name and address of a registered pharmaceutical chemist licensed to sell poisons. Every seller of poisons shall immediately on demand being made to him at his shop or place of business by a member of the Pharmacy Board, its registrar, deputy-registrar, or any person authorised in writing by the president, registrar or deputy-registrar, produce and show the poison book, as well as all letters, telegrams, and other documents by which poison is ordered; any person neglecting, failing or refusing to produce or show this book, etc., or to permit it to be examined, renders himself liable to a penalty not exceeding £100, or to imprisonment for any term not exceeding twelve months. Every offence against this Act must be reported to the Minister, and no proceedings may be taken without his consent in writing, in the form attached to the Act.

VICTORIA

Pharmacy and the sale of poisons are subjects which have repeatedly engaged the attention of the Parliament of Victoria, and this is reflected in the many enactments dealing with both which figure in the statutes. In the year 1876 two measures were assented to on the same day: An Act to establish a Board of Pharmacy in Victoria, and an Act for regulating the sale and use of poisons. The former provided for the appointment of a Pharmacy Board consisting of seven members elected by all the registered pharmaceutical chemists, and holding office for three years. The Board was empowered to conduct examinations, accept diplomas for registration, and keep a register of qualified pharmaceutical chemists. The amending Act of 1885, among other modifications, extended the word "person" to include any corporation, company or society. These various provisions were incorporated in Part III—Chemists—of the Medical Act of 1890, the full title of which is "An Act to consolidate the law relating to medical practitioners, dentists, and chemists, and to adopt and continue the British Pharmacopoeia," and remained in force until the passage of the Medical Act of 1915. This Act is divided into five parts: Medical practitioners; dentists; chemists; adoption of the British Pharmacopoeia; offences. In Part III—Chemists—provision is made for the appointment of a Pharmacy Board consisting of seven members elected by the registered pharmaceutical chemists of Victoria. The members of the Board elect one of themselves to act as president; the members are re-elected every three years. The Board is empowered to appoint a registrar and any other officers, make regulations, accept certificates for qualification for registration as a pharmaceutical chemist, to control and direct the preliminary and all examinations, appoint examiners, and collect fees for examinations and for registration. Section 88 provides that the Board may with the consent of the Governor in Council erase or remove from the register the name of any person registered who in Victoria is convicted of a felony or misdemeanour or of an offence against this Part, or who in any of His Majesty's dominions or elsewhere is convicted of an offence which if committed in Victoria would be a felony or misdemeanour. Provided that the name of a person shall not be erased or removed under this section on account of a conviction for a political offence out of His Majesty's dominions. In this Part III of the Act the word "person" includes any corporation, company or society. A penalty of not more than £10, and also imprisonment with or without hard labour for a term of not more than six months, is imposed for the following offences: (a) Carrying on business as a chemist and druggist, or homoeopathic chemist, without being a registered pharmaceutical chemist; (b) the use by an unregistered person of a title, term or symbol which may be construed to mean that he is qualified to perform the duties of a pharmaceutical chemist; (c) prescribing or practising medicine or surgery by a registered pharmaceutical chemist, or a person in his employ, except in accordance with any rights and privileges hitherto enjoyed by chemists and druggists in their open shops; (d) failure to comply with the provisions of this Part of the Act. All penalties imposed by this Act when recovered shall be paid to the Board to be applied towards the expenses of carrying this Part of the Act into effect. In 1916 an Act to amend the law relating

to medical practitioners was passed, which stipulates that every written prescription of a legally qualified medical practitioner shall be dated and bear the address and usual signature (including the surname) of the practitioner, and failure to comply with this requirement renders the practitioner liable to a fine not exceeding £5. The Act to amend the law relating to pharmaceutical chemists and for other purposes—the Pharmaceutical Chemists Act, 1920—expanded the scope of the provisions of the Medical Act of 1915. Thus the protection of titles was extended to include such names as "pharmacy," "apothecary's hall," "medical drug hall," "drug store," "pharmaceutical institution." Further, the Board may, after making a full inquiry, erase or remove from the Pharmaceutical Register of Victoria the name of any person registered who has been convicted of any offence against the Medical Act, 1915, or the Poisons Act, 1915, or of any other offence which in the opinion of the Board renders him unfit, or who through habitual intoxication or other improper conduct is adjudged by the Board to be unfit to be allowed to continue to practise as a pharmaceutical chemist. At the request of the person affected, the inquiry shall be held in public, and a final appeal from any decision of the Board to a judge of county courts is allowed within a period of six months. However, no name shall be removed from the register by reason of any offence or conduct which either from its trivial nature or from the surrounding circumstances does not in the public interest disqualify a person from carrying on the business of a pharmaceutical chemist. This Act also requires that every prescription of a qualified medical practitioner dispensed, compounded or made up by a pharmaceutical chemist shall be recorded in a special register, and empowers the Board to make regulations in respect to the recording of prescriptions, as well as the conditions under which medicines are to be dispensed, compounded or made up. The regulations made by the Board must be published in the Government Gazette, and laid before both Houses of Parliament within fourteen days.

(To be continued)

A Selling Hint

In these modern days, when slogans are so popular that sometimes they take the place of reasons, the "say it" series with their imperative command are *le dernier cri*. "Say it with flowers." "Say it with chocolates." "Say it with books." "Say it on the 'phone." But for retail chemists the best slogan of this kind is, "Say it—without asking"—"it" being the price. In other words, don't wait for the customer to ask the price. The ideal method is to have everything in the window or on the counter marked with a price ticket; then, if a desire to buy has been created, it is a desire based on a knowledge of facts including the price. This counsel of perfection is, however, not always possible of fulfilment. Many a man (women view things differently) will not go into a shop to ask the price of an article which he has seen displayed in the window, particularly if he has not much in the way of surplus cash. He hates to do what women so often do, that is, say "I'll tell her," or "It isn't for me, it is for a friend"; and he is ashamed to say, "It is more than I can afford." If he is in your shop and is looking at some article or other, then do not wait for him to ask the price; say it. He hates to ask questions at any time, and the price question most of all. Any man feels that if he asks the price he is under an obligation to purchase. This is not so in reality, but he thinks it is. Is it not this fancied obligation that lies behind hesitancy to ask the price? The chemist himself has had experience in buying, yet he never gets over the feeling of dread when he has to ask the price in a retail shop. Many sales talks miss fire because the price, the clinching argument, is either never mentioned or not brought in at the right moment. It must not be obtrusive; but if it has to be said it should be said openly and fearlessly, knowing that it is a fair price and a good reason for buying.

Associations' Winter Session

Birkenhead.—The Birkenhead and Wirral Pharmacists' Association and branch of the Pharmaceutical Society held the opening meeting of the session on October 6, when a hot-pot supper was served, about forty members being present. Afterwards Mr. E. H. Simmons, Salford, gave an address on *Pharmaceutical Topics*. Mr. Simmons, as chairman of the Benevolent Fund, asked the members for their continued support. On the proposal of Mr. C. W. Cooke, of Hoylake, a vote of thanks was accorded to Mr. Simmons.

Glasgow.—A meeting of the Executive Council of the Scottish Pharmaceutical Federation was held in Glasgow on September 22, Mr. Alex. A. Dick (President) in the chair. With regard to the Pharmacy Acts Committee of Inquiry, a report was given of what had been done by the Federation, when it was ascertained that no practising Scottish pharmacist appeared on the *personnel* of the Committee, a copy of a letter sent by the secretary to the Lord President of the Privy Council and a reply thereto being read. Further action was decided upon. The Executive confirmed the secretary's action in connection with claims against members defended by the Federation: (a) Claims under the Dangerous Drugs Act Regulations (heroin tablets), (b) claim for payment of an advertising account where contract broken by advertising company. An indemnity claim against a member for £100 had been settled by the Federation's insurance company at a cost of £44 4s., and the member had nothing to pay. It was agreed to draw the attention of members to the fact that in first-aid cases the chemist, after the first dressing, for which he should not charge, should immediately refer the patient to a physician, and should on no account continue to attend to a patient when a physician is available, as otherwise the insurance company would not be liable. At a general meeting, Mr. P. M. Duff, Glasgow (Vice-President), who occupied the chair, gave a detailed and interesting report of matters which had been dealt with. The meeting was also addressed by Mr. A. A. Dick, Bellshill (President), who was unable to be present at the commencement of the meeting, Mr. W. G. McNab, Gorebridge, and Mr. James Jack, J.P., Arbroath, members of the Executive Council.

London (S.W.).—There was a good attendance at the opening meeting of the session of the South-West London Chemists' Association, which was held on September 28 at Stevens' Bijou Hall, Clapham. The President (Mr. F. G. Wells) in the chair, first referred feelingly to the loss of two of the Association's oldest members, Mr. F. H. Glew and Mr. A. R. Keith. A motion of sympathy was passed. Mr. A. R. Melhuish then addressed the meeting, which was a conjoint one with the local branch of the R.P.U., on *N.H.I. Terms, Problems and Difficulties*. In dealing with the history of National Health Insurance the speaker paid tribute to the service rendered by Sir William Glyn-Jones in its initial stages. The possibility of dependants being included and thus making it impracticable for medical men to do their own dispensing was also mentioned. Reference was made to the drug bill, which has quadrupled itself since 1913, due to the increase in the amount of drugs taken, to the Royal Commission and the testing of prescriptions. A discussion followed, after which a vote of thanks was passed to the speaker.

Sheffield.—The first lecture of the session of the Sheffield Pharmaceutical and Chemical Society was held at the Central Evening School, Leopold Street, on October 1. Mr. F. Hindle (President) was supported by a large attendance, a fair proportion of the audience being students. The lecturer, Mr. Ernest Preston, Ph.C., illustrated the methods of percolation and maceration, including the preparing of various tinctures, and was accorded a hearty vote of thanks.—At a recent meeting, Mr. Hindle presiding, Mr. P. J. C. Bovill, B.Sc., gave an address on *Disinfectants and Disinfection*. His lecture was divided into three headings: the general history of disinfection; the nature of the microbe to be combated; the actual methods adopted in destroying the germ. The method of bacterial reproduction were then described, and the speaker then proceeded to detail ways of destroying these organisms.

West Kent.—The West Kent Pharmacists' Association held the annual meeting on October 5, when Mr. R. C. Davenport was unanimously elected *President* in succession to Mr. Allan Bone (Chislehurst), who has occupied the chair during the past two years. Mr. C. G. Pinchen (Beckenham), treasurer, reported a satisfactory balance in hand.

Women Pharmacists.—The opening meeting of the session of the National Association of Women Pharmacists was held in the First Edition Club, 6 Little Russell Street, London, W.C., on October 6. There were about 100 women pharmacists and their friends present when the President (Mrs. Irvine) introduced Professor Winifred Cullis (University of London), who had come to address them on *The Body as a Maker of Drugs*. In the audience were two pharmaceutical Councillors (Mrs. Freke and Mr. A. R. Melhuish), as well as Mr. G. C. Bonner (President of the Western Pharmacists' Association), Mr. W. B. Falding (Social Secretary), Mr. J. P. Ellerington (past-President), Miss Dennis Hayes, Miss Rosalie Sproule, and many other women pharmacists. In introducing the distinguished scientist, Mrs. Irvine referred to the recent death of Mrs. Clarke-Keer, the pioneer woman pharmacist, and traced the growth of the woman movement in pharmacy the world over. She expressed the hope that they would soon be in a position to hold an international gathering of women pharmacists, and this idea was heartily endorsed by Dr. Winifred Cullis as a preface to her address. Passing on to her subject, Dr. Cullis explained the unity of purpose characteristic of the healthy functioning of various parts of the body. It was at first supposed that this was entirely under the control of a central nervous system, but the experience of years and the discoveries of Bertaud, Addison, Schaefer and others revolutionised ideas in that respect. The discovery that the thyroid gland is directly responsible for development, physical and mental, and that this and other glands, such as the suprarenal and pituitary, are actual manufacturers and dispensers of active chemical agents within the body, has brought about a new course of medical treatment. Following on the discovery of the suprarenal gland by Schaefer came the researches of Takamine, which resulted in the synthetic preparation of adrenalin. Since then many others have been synthesised, the most recent being thyroxin. The appreciation of the audience was conveyed to the lecturer by the President and by Mr. A. R. Melhuish, Mrs. Edmunds, Miss Agnes Borrowman, and Miss Elsie Hooper.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

ENGLAND AND WALES

Local Reports

Blackburn.—During July 20,316 prescriptions were dispensed during July at a cost of £742 4s. 9d., the average cost per script being 8.7d. From April 1 to June 30, 72,173 prescriptions were dispensed at a cost of £2,627, the ingredients cost being £1,351 and dispensing cost £1,351, with an average cost per script of 10.2d.

September Drug Tariff

The following are the chief alterations for September in the Insurance Drug Tariff for England and Wales:—

Lower.—Adeps benz., 1s. 10d. lb.; adeps præp., 1s. 5d. lb.; guaiacol liq., 1s. 1d. oz.; lithii carb., 1s. 1d. oz.; ol. amygdalæ, 6s. lb.; ol. menth. pip., 85s. lb.; potass sulphurata, 1s. 3d. lb.; tr. carminativ., 10s. lb. Bandages: calico, bleached, 3 in. x 4 yds., 2.8d.; open-wove, 2½ in. x 4 yds. 1.5d., 3 in. x 4 yds. 1.8d. Cotton wool, unmediated, 6 oz. 9.2d., 8 oz. 11.9d. Lints: boric, 2 oz. 3.2d., 3 oz. 4.5d., 4 oz. 5.9d., 6 oz. 8.6d., 8 oz. 11.0d.; unmediated, 1 oz. 2.3d., 4 oz. 7.8d., 6 oz. 11.5d., 8 oz. 15.0d., 1 lb. 29.0d.
Higher.—Acid, carabolic, 1s. 5d. lb.; acid, carabolic, liq., 1s. 3d. lb.; dec. senegæ cone., 5s. lb.; ext. oase. sagr. liq., 3s. 2d. lb.; ext. casc. sagr. sicc., 9d. oz.; ext. seneg. liq., 11s. 6d. lb.; glycer. boracis, 2s. 3d. lb.; inf. senegæ cone., 4s. lb.; inf. senegæ ex cone., 6d. lb.; lin. camph., 2s. 6d. lb.; ol. limonis, 14s. 6d. lb.; ol. olivæ, 15s. gal.; tr. cantharidini, 7s. 6d. lb.; tr. senegæ, 6s. lb.; ung. aq. rosæ, 7s. 2d. lb.

Trade Report

42 Cannon Street, E.C.4, October 14.

CONDITIONS in the Mincing Lane produce markets show little change, and business has continued on a small scale so far as crude drugs are concerned. Ergot is an outstanding feature, and shows a considerable advance, but prices continue indefinite and vague. Lobelia is scarce and dearer both on spot and primary sources. Sicilian liquorice root is higher on the improvement in the Italian exchange, while supplies of good qualities continue small. Japanese camphor is quite steady, and coriander seed has reacted from its excessively low price. Turkey opium and ipecacuanha are both firm. Cod liver oil is cheaper. Menthol is inactive and the turn easier. There is more demand for essential oils this week. Price movements are numerous, and are mostly to lower levels. Advances, however, have been reported in bergamot, copaiba, and patchouli oils. Lower prices are quoted for (among others) caraway oil, cassia (c.i.f.), lemon, and Japanese and American peppermint oils. Java citronella is also cheaper. In pharmaceutical chemicals uncertainty prevails as to the future position of a number of imported chemicals, and business is quite hand to mouth. Acetanilide is in rather better supply; bromides are slow of sale; phenacetin, aspirin, and salicylates are steady. In the industrial chemical group trading continues on very limited lines, and a number of products are unsettled in price: these include acetone, oxalic acid, formic acid; carbolic acid ice crystals is firmer, and pale and refined cresylic acids are still very firm; sodium sulphide and potash prussiate are steadier. In the so-called vegetable oils the recent depression continues and prices are still tending towards lower levels. Palm oils have been further slightly reduced, and linseed is easier; ground nut is irregular.

Higher	Firmer	Easier	Lower
Bergamot oil	Arsenic	Caraway oil	Acetone
Coriander seed	Carbolic acid	Cassia oil	Cod-liver oil
Creosote oil	Cinnamon leaf oil	(c.i.f.)	Palm oil
Ergot	Copaiba oil	Citronella oil (Cey.)	Rosewood oil
Lemongrass oil (Cochin)	Spike oil (Sp.)	Formic acid	Spearmint oil
Liquorice root (Sicil.)		Lemon oil	Tannic acid (B.P.)
Lime oil		Linseed oil	Vetivert oil
Lobelia		Naphthalas (solvent)	Wax, bees'
Patchouli oil		Peppermint oil (Amer.)	Wormseed oil
Pepper		Peppermint oil (J.P.)	
	Formaldehyde	Sodium acetate	
	Potash prussiate	Vanilla	
	Resorcin		
	Sodium sulphide		
	Steadier		

Cablegram

NEW YORK, October 13.—Business is fair. Peppermint oil in tins is firmer at \$6.50 per lb.; belladonna root has advanced to 18c. per lb., and clecampane root to 8c. per lb. Short buchu is dearer at 50c., and euonymus (wahoo) bark of root is lower at 64c. per lb.

Crude Drugs, etc.

AGAR AGAR is quiet at 3s. 10d. per lb. spot for No. 1 Kobe, and new crop to arrive is 3s. 6d. c.i.f. Yokohama No. 1 is 3s. 7d. spot, and new crop 3s. 4d. c.i.f.

ALOES.—The exports from the Union of South Africa during March amounted to 116,869 lb. (£882), against 65,231 lb. (£514) in March 1925. During the three months ended March 31, the exports were 346,876 lb. (£2,622), against 159,959 lb. (£1,318) for the corresponding period of 1925.

ANTIMONY.—There is little change, but the tone is fairly steady, although uncertain in the case of Chinese regulus, the demand for which is slow at £62 to £62 10s. High-grade English refined remains at £74 10s. to £75. Terms for shipment from China are about £56 c.i.f., but no reliance can be placed on the fulfilment of contracts. Chinese crude is quite nominal at upwards of £42 per ton on the spot.

BALSAMS.—*Copaiba* on the spot is quoted at 1s. 9d. per lb., and for shipment 1s. 8d. c.i.f. *Tolu* is rather firmer at 3s. 3d. For *Peru*, 6s. 4d. to 6s. 6d. is quoted for B.P. *Canada* balsam is 5s. 3d. on the spot.

BUCHU.—The exports from the Union of South Africa during March amounted to 19,931 lb. (£1,051), against 25,591 lb. (£2,313) in March 1925. During the three months ended March 31, the exports were 45,189 lb. (£2,273), against 60,493 lb. (£6,506) for the corresponding period of 1925.

CADMIUM.—There is a steady demand for Australian, and a good business is reported on the basis of 1s. 9d. per lb. for fair-sized lots.

CAMPHOR (REFINED).—Japanese slabs are quoted at 2s. 10d. per lb., 1/2-oz. tablets at 3s. 7d., and flowers at 3s. per lb. on the spot; to arrive, slabs offer at 2s. 8d. c.i.f. for October-November shipment.

CARAWAY SEED.—New crop Dutch is unchanged at from 35s. to 35s. 6d. per cwt. c.i.f., for prompt shipment.

CASCARA SAGRADA continues slow of sale, new crop offering to arrive at 67s. 6d. per cwt. c.i.f., and two-year-old peel on the spot at 80s. to 85s. per cwt.

CHAMOMILES.—Belgian are selling steadily at from 95s. to 105s. per cwt. for new crop, with good first pickings offered up to 130s.

CLOVES are firm, fair Zanzibar offering on the spot at 9d. to 10d. per lb., according to quality; October-December shipment is quoted at 8d. per lb. c.i.f. The landings in London during the week ended October 9 were nil, and the deliveries 398, leaving a stock of 9,764 bales, against 8,745 bales in 1925 and 19,931 bales in 1924. Up to October 9, the landings of Zanzibar in London have been 9,968, against 11,232 in 1925, while the deliveries amount to 14,404, against 17,591 last year.

COD LIVER OIL is rather cheaper, agents offering finest non-freezing Lofoten 1926 oil at from 100s. to 102s. per barrel c.i.f. London, and ex wharf London is quoted at about 107s. per barrel.

ERGOT.—The market future is more of an enigma than ever, but the fact remains that manufacturers are compelled to pay the high prices asked. Quotations, which are tentative and vague, vary considerably, and it is very difficult to obtain definite prices owing to undoubtedly scarcity. There are offers varying from 4s. 6d. per lb. c.i.f. and upwards for Russian or Spanish, and sales have been made at from 4s. 3d. to 4s. 9d. c.i.f. One spot holder is asking 6s. for sound Spanish. It is reported that about 5s. 6d. was paid in Hamburg.

INSECT FLOWERS are steady, but likely to be firmer in view of the improvement in the exchange. Dalmatian best closed offer at about 65s. per cwt. c.i.f. to come forward; spot sellers quote 75s. per cwt.

IEPECACUANHA is still firm at 14s. 6d. per lb. for Matto Grosso.

LIQUORICE ROOT.—Sicilian is higher on account of the improvement in the lira; cut decorticated is now 57s. 6d. per cwt. c.i.f., and lengths 52s. 6d. c.i.f. Russian is unchanged at 35s. to 36s. per cwt. for single peel lengths.

LOBELIA is much dearer, with business to arrive at 4s. per lb. c.i.f.; spot market is about 4s. 6d. per lb., but supplies are excessively scarce.

MAGNESIUM has been rather quieter. Current quotations for small ingots and sticks range from 3s. 9d. to 4s. 3d. per lb., and powder varies from 5s. to 6s. 3d. per lb., according to quality.

MENTHOL is inactive, with K.S. offering at 18s. per lb. in five-case lots on the spot. Forward positions are as follows, but are nominal: August-September, 17s. 6d.; September-October, 17s.; October-December, 16s. 6d.; and January-March, 15s. 6d. per lb. c.i.f.

MERCURY.—The market is called very firm, only little being actually offered on the spot, holders being more reluctant to sell, while the demand has shown improvement. Small lots have been done up to £16 10s. per bottle, less the usual discount, but business could be done at about £16 5s. It is reported that £15 10s. has been asked for Spanish, net, f.o.t. at the mines, the equivalent of which would be about £16 5s. c.i.f. London.

OLIVE OIL.—Finest Provence in barrels is quoted at 7s. 6d., and finest Italian at 7s. 6d. per gallon.

OPIUM remains firm at 2s. 2d. per unit for Turkey drug-gists' testing about 11½ per cent. morphine.

ORRIS.—Selected Florentine is quoted at 30s. per cwt. c.i.f. Verona is 27s. c.i.f.

RUBBER is steady at slightly below last week's prices. There has been an absence of business from America, and everything is more or less at a standstill pending the appearance of the Government's statement. The cables from Singapore continue firm, and very little rubber is being offered from that quarter, except at much higher prices. Stocks continue to accumulate, and last week there was a further increase of 1,161 tons. The London stock now stands at 37,226 tons. It seems suspicious that the natives are using up all their coupons fearing eventual cancellation by the Colonial Office. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and October, 1s. 8d.; November, 1s. 9d.; December, 1s. 9d.; January-March, 1s. 9d. per lb.

SAFFRON has been attracting interest in view of the approach of the new crop, which is due to start in about

ten days. Supplies are not expected in London until about the end of November. The position in Spain is that supplies are firmly held, and importers report that the present prices will be maintained until definite news of the prospects of the new crop are forthcoming. Spot sales have been made at 102s. 6d. per lb. for superior Valencia.

SEEDS.—The depression in the seed market still exists, and what little business has been done is on small lines. Prices remain as follows:—**CANARY SEED.**—Mazagan shows no demand; 18s. is quoted, spot; Saffi, 16s. 6d.; and good bold Spanish, 30s. to 32s. 6d.; and small, 24s. **CUMIN SEED.**—Maltese is 29s. to 35s. for old crop, and 33s. c.i.f. is quoted for new crop; Morocco, 29s. spot. **ANISE.**—Spanish is 50s., and Russian 35s. per cwt. **CORIANDER SEED.**—Morocco is firm and scarce; 16s. is asked for sound on the spot. **DILL SEED** is 22s. spot. **FENUGREEK SEED.**—Morocco, 11s. to 11s. 6d. per cwt. spot. **HEMPSEED.**—Manchurian, 15s. **LINSEED.**—Mazagan 19s., and Morocco 18s. 9d., spot. **MUSTARD SEED.**—English new crop is now 32s. 6d.

SENEGA.—Spot sellers continue to quote 3s. per lb., and first-hands at 3s. to 3s. 1d. c.i.f., with re-sellers at slightly less.

SHELLAC.—The spot market for usual standard TN quality is steady at 180s. to 185s. per cwt., and AC cakey is 170s. To arrive the sales include TN for October-November shipment at 167s. 6d. to 170s. c.i.f., with further sellers at 165s. c.i.f. Sales for delivery include October at 175s. to 176s., and December at 177s. to 178s. 6d.

VALERIAN ROOT.—New crop Belgian to arrive is quoted at from 47s. 6d. to 50s. per cwt. c.i.f., and on the spot 65s. will buy.

VANILLA.—At auction on Wednesday 205 tins were offered and about 100 sold, at slightly easier prices; 72 tins Mauritus offered and sold, comprising firsts 5 to 7 in., 10s. 3d. to 12s. 6d.; 3½ to 4½ in., 9s. 3d. to 9s. 9d.; 82 tins Madagascar offered and 18 sold, firsts crystallised 5½ in. to 6 in., 15s. 9d.; six tins Seychelles sold, firsts 9s. 3d. to 10s.; splits, 7s. to 8s.; 71 tins Ceylon offered and six sold at 10s. for foxy firsts.

WAX, VEGETABLE.—Japanese is slow of sale at about 85s. per cwt. on the spot; and to arrive, 81s. to 82s. c.i.f. is quoted.

Essential Oils

THERE is more inquiry this week, and a fair number of price changes to record. Among those oils which have advanced are bergamot, patchouli, lime, and Cochin lemon-grass. Lower quotations are made for Ceylon citronella, cassia, American and Japanese peppermint, spearmint, wormseed, and rosewood oils.

ANISE (STAR).—“Red Ship” on the spot is steady at 3s. 6d. per lb., and possibly less for actual business would be accepted. Lower quotations are made for shipment at from 2s. 8½d. to 2s. 9d. c.i.f., the decline being due to currency fluctuation.

BERGAMOT.—Further advances in the price have been recorded, up to 33s. per lb. c.i.f. being quoted for prompt shipment. New crop, January-March shipment, is quoted at 26s. 9d. to 28s. 6d. c.i.f. Spot supplies are scarce and range from about 30s. to 32s. 6d. as to brand.

CANANGA is scarce on the spot for Java, and in some directions small sales have been reported at from 19s. to 20s. per lb. Some parcels have been recently rejected as unsatisfactory.

CARAWAY.—The recent decline in the value of the seed was followed by lower prices for the oil, but the seed has again advanced and prices of oil are still unchanged. In large quantities 6s. 3d. to 6s. 6d. per lb. is quoted for double rectified, smaller lots from 7s. to 7s. 6d.

CASSIA is about steady on the spot at 8s. 4½d. to 8s. 6d. per lb. for 80 to 85 c.a. For shipment the easier price of 6s. 8d. to 6s. 9d. c.i.f. is quoted.

CEDARWOOD.—American on the spot is firm at 1s. 0½d. per lb. in drums and 1s. 3½d. in cases. For shipment, 1s. c.i.f., drums, and 1s. 2d. c.i.f., cases.

CINNAMON.—Ceylon leaf has been sold on the spot at 6s. 5d. per lb., and holders now ask 6s. 8d. per lb. Recently 5s. c.i.f. in large drums was quoted, no quotations being made for bottles and cases.

CITRONELLA.—Ceylon is dull and easier at 1s. 6½d. per lb. on the spot and 1s. 5½d. c.i.f. Java is unchanged at 2s. 4d. on the spot and 2s. 2d. c.i.f.

CLOVE.—English distillers quote from 6s. to 6s. 3d. per lb.

COPAIBA is firmer at 2s. 2d. per lb., ex warehouse.

EUCALYPTUS is dull, despite the approach of the consuming season, and while 1s. 9d. per lb. is now quoted on the spot for Australian 70 to 75 cineol probably a shade less would still be accepted.

GINGERGRASS.—There has been very little inquiry recently, a recent quotation for shipment being 7s. 6d. per lb. c.i.f.

LAVENDER.—French oil, 38 to 40 per cent. esters, has been inquired for this week, and small sales reported. The spot quotation is about 18s. per lb.

LEMON.—The uncertainty of the position is accentuated by the currency movements, and holders of some brands have instructions not to sell without confirmation. In other directions prices are too high to attract much interest, but there are offers of good brands at about 9s. to 9s. 6d. per lb. c.i.f., prompt shipment. New crop, January-March shipment, is quoted at 8s. to 8s. 6d. c.i.f. On the spot, there are sellers at from 8s. 9d. to 9s. 3d.

LEMONGRASS.—Cochin is dearer to come forward at 3s. 6d. per lb. c.i.f. On the spot 3s. 7d. is quoted.

LIME.—Recent arrivals of West Indian hand-pressed have been sold at 45s. per lb. No further supplies are available. Distilled is held for 36s. in one direction.

ORANGE.—Sicilian sweet is firmer at from 9s. to 9s. 3d. per lb. on the spot, or c.i.f. to arrive. New crop, December-February shipment, is also quoted at 9s. c.i.f. Bitter afloat is quoted at 9s. 6d., ex warehouse. West Indian sweet is about 8s. Californian is 6s. 9d. for drums and 7s. cases.

PALMROSA on the spot is slow of sale at 9s. per lb. in original pots.

PATCHOULI is scarce on the spot, and there has been more inquiry, with prices quoted ranging from 27s. 6d. per lb. for fair Singapore to 31s. for fine quality.

PEPPERMINT.—American natural tin oil is slow of sale, importers quoting 27s. to 28s. 6d. per lb. c.i.f., with the suggestion that bids of 26s. to 27s. for at least five-case lots might lead to business. On the spot, original packages, as imported, ex wharf or ex ship, are quoted at about 32s. to 32s. 6d. per lb., but for parcels on the way 27s. to 29s. is quoted by first-hand shippers; double-distilled is 30s. c.i.f., with spot sales at 31s. 6d. H.G.H. to come forward is quoted at about 41s. 6d. per lb., London terms. Japanese dementhrolised is slightly easier, K.S. offering on the spot at 10s. 9d. per lb. In forward positions little business is reported, sellers quoting September-October at 9s. 6d., October-December at 8s. 6d., and January-March at 7s. 6d. c.i.f.

PETITGRAIN.—A good demand has been noted for Paraguayan, which is quoted at from 7s. 3d. to 7s. 6d. per lb. on the spot as to quantity, and for shipment at from 7s. to 7s. 2d. c.i.f.

ROSEWOOD (BOIS DE ROSE).—A further decline is recorded, spot quotations varying from 9s. to 9s. 6d. per lb., with not much interest shown.

SASSAFRAS.—Genuine American is quoted on the spot at 4s. per lb.

SPERMINT.—American is cheaper, with offers of original cases at 25s. per lb., ex warehouse. Single tins are 26s.

SPIKE.—A good spot demand is reported for Spanish oil following the recent adverse accounts of the new crop. Prices in Spain have been advanced by 2 pesetas per kilo, but no advance is yet recorded in spot values.

VETIVERT.—Bourbon is cheaper to arrive; small lots on the spot are obtainable at from 35s. 6d. to 36s. per lb., and up to 40s. is quoted in some directions.

WORMSEED (CHENOPODIUM).—American is cheaper at 19s. per lb. on the spot.

WORMWOOD.—American is firm and scarce at 31s. 6d. per lb., ex warehouse.

The following arrivals of essential oils have taken place from the countries indicated during the period October 6 to 13 inclusive:—**Anise (Ch.)** 16 cs., (Fr.) 10 cs., (Jp.) 10 cs.; **bergamot (It.)**, 14 cs.; **calamus (Ger.)**, 1 cs.; **camphor (Jp.)** 5 dm., (Ger.) 7 cs.; **cassia (Ch.)** 10 cs.; **citronella (Jv.)** 4 dm., (Br. Ind.) 4 dm., (Cey.) 6 dm.; **geranium (Alg.)** 7 dm., (U.S.) 4 cs.; **guaiacumwood (Holl.)**, 1 cs.; **ho (Jp.)**, 10 cs.; **lavender (Fr.)**, 6 cs.; **lemon (It.)** 15 cs., (Ger.) 2 cs., (Fr.) 10 cs.; **lemongrass (Br. Ind.)** 7 dm., (Jv.) 1 dm., (Ch.) 2 dm.; **lime (B.W.I.)**, 38 cs.; **mandarin (It.)**, 3 cs.; **orange (Can.)** 13 cs., (It.) 2 cs.; (B.W.I.) 10 cs.; **palmarosa (Br. Ind.)**, 4 cs.; **peppermint (Jp.)** 235 cs., (Holl.) 1 cs., (U.S.) 29 cs., (Ger.) 1 cs.; **petitgrain (Fr.)** 3 cs., (Holl.) 2 cs.; **pimento (B.W.I.)**, 2 cs.; **spike (Sp.)**, 5 dm.; **wormseed (U.S.)**, 2 cs.; **undescribed (Fr.)** 23 cs., (U.S.) 20 cs.

Pharmaceutical Chemicals, etc.

IN many products buyers are limiting their orders to small parcels owing to the uncertainty as to the future position under K.I. duty. Generally the market is quiet, with little change to report this week.

ACETANILIDE.—There are now offers of cwt. lots at 1s. 7½d. per lb., but some holders are asking from 1s. 8d. to 1s. 8½d. per lb. for B.P. crystals and powder.

ADRENALIN.—Synthetic is selling at about 4s. per gram. Pure is about 4s. 3d. per gram.

AMIDOPYRIN seems of no interest at the moment; dealers quote at about 11s. 6d. per lb.

ASPIRIN is steady, with a fair amount of business being done; quoted from 2s. 3½d. to 2s. 4d. per lb., according to quantity.

BARBITONE remains dull in the region of 8s. 9d. per lb.; business is negligible.

BENZOIC ACID (B.P.) continues very steady, with fair business: British, 2s. 1½d. to 2s. 3d. per lb., ex works; Continental, p.f.f.c., 3s. 6d., for small spot parcels.

BENZONAPHTHOL is steady, but in little request at 3s. 3d. per lb. for five-kilo parcels.

BROMIDES.—Business continues slow, with prices unchanged: ammonium, 2s. 1d. to 2s. 1½d.; potassium, B.P. crystals and granular, 1s. 8d. to 1s. 8½d.; sodium, B.P., 1s. 10d. to 1s. 11d. per lb., according to quantity.

CALCIUM LACTATE shows no change, with quoted prices at from 1s. 3d. to 1s. 4d. per lb. as to quantity.

CHLORAL HYDRATE.—Duty-paid crystals are steady, although rather quiet at from 3s. 3d. to 3s. 4d. per lb.

CITRIC ACID (B.P. crystals) is now very slow at about 1s. 3d. to 1s. 3½d. per lb., less 5 per cent. for foreign.

CREOSOTE (B.P.) is steady at 1s. 9½d. per lb., in demijohns.

CREOSOTE CARBONATE continues to be quoted at 6s. to 6s. 3d. per lb., with little business.

GUAIACOL CARBONATE is irregular and very slack at about 7s. per lb.

HEXAMINE.—Business is very small forward, while spot prices hold at 2s. 5½d. to 2s. 5¾d. per lb., for free-running crystals.

HYDROQUINONE continues unsettled, with very little business being done; quoted at about 4s. per lb.

METHYL SALICYLATE is very steady at about 1s. 4½d. to 1s. 4¾d. per lb. in carboys.

METHYL SULPHONAL remains dull, with dealers offering small parcels at 15s. 3d. per lb.

MILK SUGAR.—Dealers' prices are unchanged: Dutch, B.P., 61s. to 63s.; German, B.P., 59s. to 61s. per cwt., in cases.

PARAFORMALDEHYDE (100 per cent. powder) continues to be quoted at about 1s. 9d. per lb., in kegs; business small.

PARALDEHYDE shows no change at from 1s. 2d. to 1s. 4d. per lb., according to quantity and packing.

PHENACETIN.—Spot is very steady at about 3s. 11d. per lb., and a fair business has been done; forward position is unsettled.

PHENAZONE remains rather dull at about 5s. 9d. per lb.; forward unsettled.

PHENOLPHTHALEIN remains dull at about 3s. 11d. to 4s. per lb.; business still poor.

POTASSIUM PERMANGANATE (B.P.)—No further depreciation in prices is recorded, with the quotations at 6½d. to 6¾d. per lb., according to quantity, in two-cwt. drums; some dealers might take 6d. for large orders.

RESORCIN is rather steadier, with nothing much offering under 4s. 4d. to 4s. 6d. per lb.; not much business about.

SALICYLIC ACID (B.P.) continues steady at about 1s. 3d. to 1s. 3½d. per lb.

SALOL meets with no great demand at 3s. to 3s. 1d. per lb.

SODIUM BENZOATE (B.P.)—This market is very steady, and one-owl. lots are at 1s. 8d. to 1s. 8½d. per lb.

SODIUM DIETHYLBARBITURATE is slack at about 9s. and upwards per lb.

SODIUM SALICYLATE.—Both powder and crystals in one-cwt. lots are quoted at 1s. 9d., and small lots at 1s. 11d. per lb.

TANNIC ACID.—B.P. leviss is cheaper from 2s. 7½d. per lb., in one-cwt. lots, and up to 2s. 10d. per lb. for small parcels.

TARTARIC ACID (B.P. crystals).—Very little business is being done here; dealers continue to quote at 11½d. to 11¾d. per lb., less 5 per cent. for foreign, according to quantity.

TERPIN HYDRATE is offered freely from about 1s. 6d. per lb., but the demand is still poor.

THYMOL in fair quantity is steady as quoted at 11s. 6d. per lb.; business has been moderate of late.

VANILLIN (100 per cent. from cloves).—Dealers are freely offering at 18s. 6d. to 19s. per lb., in small parcels; a lower figure would be taken for big business.

Aromatic and Synthetic Chemicals, etc.

BENZYL BENZOATE is dearer at 2s. per lb. BENZYL ACETATE is quoted at 1s. 10d. to 1s. 11d. BENZYL ALCOHOL is offered at 2s. COUMARIN ranges from 10s. 9d. to 11s. 6d., according to quality. HELIOTROPINE is steady at from 4s. 9d. to 5s. 3d. as to quality. Good quality TERPINEOL is offered at 1s. 4d.

Among the imports of chemicals which have paid Key Industry Duty are the following:—Acetone, £2,058; aspirin, £182; argyrol, £467; butanol, £1,636; carbon tetrachloride, £131; cellulose acetate, £657; cobalt carbonate, £224; cocaine hydrochloride, £1,216; hexamine, £172; magnesium powder, £115; metaldehyde, £1,125; milk of magnesia, £462;—hydrochloride, £107;—hydroxide, £319;—oxychloride, £161; sodium hyposulphite, £200; strychnine, £283; undescribed chemicals, £3,994.

Industrial Chemicals, etc.

London, Wednesday, October 13.

BUSINESS continues on very limited lines, with the general tone of the market remaining steady. Oxalic acid, formic acid and some other products are unsettled and more or less idle at the moment.

ACETIC ACID has been moving fairly well and dealers' prices are now very steady: 80 per cent. technical, £37; 80 per cent. pure, £38 per ton, in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66, in glass demijohns; glacial, in barrels, £55 10s. per ton, ex wharf.

ACETONE.—Very little business is being done owing to the continued unsettled and weak condition of the market: B.G.S. in drums is nominal at £68 per ton; any business is at a lower figure.

AMMONIA (ANHYDROUS).—The season's demand has ended; prices are unchanged at 1s. 1d. per lb., in loaned cylinders, carriage paid.

AMMONIUM CHLORIDE.—Dealers' prices do not attract much business: grey galvanising, £21 15s. per ton, in casks, ex store; cheaper for quantities to arrive.

ARSENIC.—Under fairly active demand, and the rather better advices as to American trade prospects, holders of white Cornish have been able to secure still better terms, and £15 15s. up to £16 per ton is being asked, f.o.r. at mines.

BARYTES is steady but still rather quiet at from £3 7s. 6d. to £5 15s. per ton, c.i.f., according to quantity and quality.

COPPER SULPHATE.—The export demand continues restricted, and this, with keen competition, is keeping down prices at about £23 15s., although up to £24 is asked by the larger makers.

CREAM OF TARTAR is fairly steady but in rather poor call at from 72s. 6d. to 73s. 6d. per cwt., less 2½ per cent. for foreign, according to quantity.

FORMALDEHYDE seems steadier, and the demand is better: 40 per cent. by volume, £40 per ton, ex wharf.

FORMIC ACID continues slack, and the position as to the future is uncertain: spot or near at hand, 85 per cent., about £48; 90 per cent., about £51 per ton, in carboys, ex wharf.

GLAUBER'S SALT remains slack, with commercial quality at about £3 12s. 6d. per ton, in single bags; slightly cheaper for quantities to come forward.

LEAD PRODUCTS.—Lead acetate is dull and easy as quoted: brown, £41; white, £43 per ton, spot; red lead, imported, £38, c.i.f. London; white lead, dry, £36 8s. 9d.; ground in oil, £37 18s. 9d., c.i.f. London. The market is steadier at the lower rates quoted at the close to-day; business rather quiet.

LITHOPONE continues steady, with a limited business; best brands of 30 per cent. Continental red seal, £20 to £20 10s. per ton, in casks, ex store; cheaper for contracts.

OXALIC ACID is practically idle and spot is nominal at 3½d. per lb.; no quotations forward.

POTASH CAUSTIC continues steady, but the demand is much below average: 88 to 92 per cent. solid, £27 10s. per ton, in drums.

POTASSIUM CARBONATE is steady, but the demand is still poor: 90 to 92 per cent., £24 10s.; 96 to 98 per cent., £26 per ton, in casks, ex store.

POTASSIUM CHLORATE shows no improvement in demand and prices are unchanged: crystals, 3½d.; powder, 3½d. per lb., in large quantities.

POTASSIUM PERMANGANATE meets with a limited business, for which there is keen competition: commercial quality, in two-cwt. drums, 5d. to 5½d. per lb.

POTASSIUM PRUSSIATE remains quiet at about 6½d. to 7d. per lb., in casks; market steadier.

SAL AMMONIAC.—Dealers are finding competition very severe: dog-tooth crystals, £31; medium, £30; fine white crystals, £19 per ton, in casks, ex store; slightly cheaper for quantities to arrive.

SODIUM ACETATE is easier on a slack market, with imported offering at about £19 10s. per ton, ex wharf.

SODIUM CHLORATE is still dull, with dealers offering at about 3½d. to 3½d. per lb.

SODIUM HYPOSULPHITE.—Business has remained poor, but quoted prices are unchanged: pea crystals, £15 5s. per ton, in one-cwt. kegs; commercial lump, £9 per ton, in casks, ex wharf. British makers' price for pure crystals for home consumers on contract, £15 10s. per ton, carriage paid to buyer's station.

SODIUM NITRATE.—London trade is still negligible: 96 per cent., £11 15s.; refined, £12 5s. per ton, f.o.r. docks, London.

SODIUM NITRITE remains dull at unchanged prices: 100 per cent. basis, £20 per ton and 20s. 6d. per cwt., docks, London.

SODIUM PRUSSIATE is now steady, but in poor request as quoted at 3½d. per lb., in bulk quantities.

SODIUM SULPHIDE is steadier, but in little call: 60 to 62 per cent. solid is £10 5s., and broken, £11 5s. per ton, in drums, ex wharf.

SULPHUR is not very active, but prices are well held under control. American crude, delivered Manchester, is quoted £5 17s. 6d., and Italian refined is £12 to £15 5s. for flowers and £10 to £10 5s. for rolls, delivered London warehouse.

COAL TAR PRODUCTS, ETC.—There is little change to report; prices continue firm, with supplies short. After issuing an Order prohibiting the export of pitch last week, the Government are now issuing licences freely. They appear to have investigated the position after stopping very large export business. It is expected that the Order will be cancelled. ANILINE OIL continues short, with the price nominal at 9½d. per lb., in loaned drums, carriage paid. ANILINE SALT is quoted nominally at about 9½d. per lb., packages extra, carriage paid. BETANAPHTHOL continues short, with the price nominal at 1s. 1d. per lb., carriage paid. TOLUOL.—Continental is offered in limited quantities at about 2s. 5½d. per gallon, for commercial 90's, c.i.f. U.K. port, drums free; pure, 2s. 11d. c.i.f. XYLOL in little demand: pure, about 3s. 6d.; commercial, 2s. 9d. per gallon, at works. CARBOLIC ACID.—Crystals have been moving in better quantities and prices are distinctly firmer at 6d. per lb., f.o.b., for 39° to 40° C. ice crystals, in bulk quantities; makers appear to be quite fully sold. CRESYLIC ACID.—Prices are unchanged, with the market very firm: Continental, 98 to 100 per cent., in barrels, £22 17s. 6d. per 1,000 kilos, f.o.b. Hamburg; British material of American specification, 97 to 99 per cent., 2s. 3½d. per gallon, f.o.b., drums extra; 95 to 97 per cent., 2s. 1½d., naked at works; 99 to 100 per cent., 2s. 6½d., naked at works. CREOSOTE OIL is dearer again and very firm, with short supplies: ex works, 8½d.; f.o.b., 9d. per gallon, in bulk quantities. NAPHTHALENE continues firm and in fair demand: flakes, £13 17s. 6d.; balls, £13 17s. 6d.; powder, £12 17s. 6d. per ton, f.o.b. Hamburg; crude naphthalene, £8 per ton, at works. Pure METHYL ALCOHOL continues dull, with offers of one-ton lots at £47, in drums, ex wharf. PYRIDINE remains slack at from 16s. to 18s. 6d. per gallon. PITCH.—The price is nominal at about 160s. per ton, f.o.b. East Coast, with very little British available; the market is active and firm; licences to export are being granted freely.

Fixed Oils, etc.

CONTINUED depression throughout is again reported, and any movements in prices are still mostly to lower levels. Palm oils show a further general downward move. ACID OILS are still quiet, with quoted prices irregular: coconut-palm kernel, 38s. 9d.; groundnut, 31s. 9d.; soya, 25s. 9d. spot. CASTOR.—Demand is still poor, with no further reduction in prices: pharmaceutical, 47s. 6d.; first pressings, 44s. 6d.; second pressings, 40s. 6d. spot, in barrels in not less than one-ton lots. COCONUT remains quiet; prices are about the same: deodorised, spot, 51s.; Cochin, 48s. 9d. c.i.f.; Ceylon, 44s. 6d. c.i.f. COTTON.—Continued slackness is reported, with no further reduction in prices: deodorised, 45s. 3d.; common edible, 43s.; soapmaking, 41s.; crude, 35s. 6d. spot. GROUNDNUT remains quiet, and prices are irregular: deodorised, spot, 52s., in barrels, ex mill; crude Oriental, 42s. 3d. c.i.f. PALM KERNEL remains dull; deodorised, 47s. 9d.; crude, about 43s. spot. PALM.—A further general slight reduction in prices for all grades is reported, with the market continuing dull: Lagos, 36s. 9d.; sefts, 37s. 4½d.; mediums, 35s. 6d.; hards, 36s. 6d.; bleached, 38s. 7½d. spot. RAPE is very quiet and unsteady: refined, 51s.; crude, 49s. spot. SOYA continues quiet and irregular on quotation: deodorised, about 44s.; crude, about 40s. spot. LINSEED (raw, naked) has been quiet all the week, and quotations for all positions are easier: on spot, 30s. 3d.; October, 29s. 1½d.; November-December, 29s. 3d.; January-April, 30s.; May-June, 30s. 6d. Boiled oil, spot, 32s. Hull, on spot, 30s. 3d.; October-December, 30s. 3d.; January-April, 30s. 4½d.; May-August, 30s. 1½d. TURPENTINE.—There has been a renewed advance in the American prices to well upward of 86 cents, as quoted at Savannah, and the tendency there is reported very firm. The trade demand on this side, however, is still very quiet and hesitating; prices, however, are weaker at the close. Spot closes at 65s. (paid), November-December, 65s.; January-April, 66s. 9d.; and May-June, 66s. Last week's deliveries were very good at 2,245 barrels, making an aggregate of 87,237 barrels since January 1, this comparing with 72,935 barrels for the same period last year. Stocks here were returned at 21,211 barrels, against 54,930 barrels the same date last year. At the close of last week 2,055 barrels were landing, and with 10,450 barrels afloat, the total London visible supply amounts to 33,716 barrels, against 55,439 barrels.

LUBRICATING, MINERAL, AND BURNING OILS, ETC.—Solvent naphthas continue firm at slightly lower prices after recent

advances. Other products are about the same, with most of them showing little life. BENZOL.—Supplies continue short, with the market firm: standard motor is quoted at about 2s. 2d. per gallon, filled into buyer's tank wagons. This is mostly imported material. FUEL OILS are unchanged and market quiet: 950 gravity, £3 17s. 6d.; 890 gravity, £4 7s. 6d. per ton, ex tank. PARAFFIN WAX and SCALE.—Wax is still quiet and unsteady: 3d. to 4d. per lb., according to melting point, in bags. Scale is irregular on a quiet market at from £24 15s. to £25 2s. 6d. per ton, c.i.f. U.K. port. PARAFFIN OILS are very firm, and may advance a point: American standard white, 1s. 1d.; water white, 1s. 2d. per gallon, barrels free. Russian prime white kerosene, 6½d. to 7d., ex tank; 7d. buyer's barrels filled free, and 11d. barrels free, ex wharf.

Santonin in the United States

MR. L. GILDESGAME, managing director of the Eastern and Russian Trading Co., Ltd., has just concluded an important tour in the United States, the object of which was to develop the market for santonin by educating farmers and breeders in its use as a vermicide, and to impress upon them the menace of worms to their live stock and the enormous losses due to this cause. In his study of the special conditions of the American market Mr. Gildesgame received whole-hearted co-operation from all official, scientific and commercial organisations with which he came into contact. The U.S. Department of Agriculture, and especially the Bureau of Animal Industry, of which Dr. Mohler is the able chief, has done pioneer work in impressing upon the farmers the necessity of combating worm infestation in the pig industry, and every courtesy was extended to Mr. Gildesgame by this department. The importance of this industry in the United States may be gauged from the fact that there are fifty to sixty million pigs in that country, and the annual cash income to the farming community from this source is over 200 million pounds sterling. The scope of santonin is, however, by no means limited to the pig industry, but it is also a vital necessity for the successful rearing of poultry, dogs and other domestic animals. As there are 350 million poultry in the U.S.A., as well as seven million dogs, the scope is obviously enormous. It is only during recent years that the enormous losses caused by worms has been brought to light by the researches of Stewart in England and of Hall and Ransom in America. As yet these losses are by no means commonly realised, as those caused by worms are not so manifest as those due to other diseases, such as hog cholera and swine fever, and consequently are more liable to escape notice. The number of cases of death caused by worms may be fewer, but the insidious financial losses due to unthrifty animals are very much greater. The most important hog states are Iowa and Illinois, which together support about twelve million hogs, and Mr. Gildesgame's efforts were at first concentrated in these two states. The success of the campaign there soon warranted its extension on similar lines to the important neighbouring states of Nebraska, Dakota, Minnesota, and Missouri. Important support was also received from the agricultural colleges, such as the Iowa State College and the Universities of Illinois and Wisconsin, as well as from the American veterinary associations.

Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday:—

Place	Method of Quoting	Par of Exchange	October 6	October 13
Amsterdam ..	Fl. to £	12.107	12.12½—12.12½	12.12½—12.12½
Berlin ..	M. to £	20.43	20.36½—20.37½	20.37½—20.38½
Brussels ..	Fr. to £	25.22½	176½—176½	174—174½
Calcutta ..	Perrup,	24d.	17½—17½d.	17½d.—17½d.
Constantinople ..	Pst. to £	110	940—955	930—945
Copenhagen ..	Kr. to £	18.159	18.27—18.28	18.23—18.25
Greece ..	Dr. to £	25.22½	403—408	401—403
Hong Kong ..	T.t. \$	—	24½d.—24½d.	24½d.—24½d.
Italy ..	Lire to £	25.22½	127½—127½	120½—121
Kobe ..	Yen	24.58d.	24d.—24½d.	23½d.—23½d.
Lisbon ..	Escu	53½d.	2½d.—2½d.	2½d.—2½d.
Madrid ..	Pes. to £	25.22½	32.27—32.30	32.64—32.66
Montreal ..	S to £	4.86½	4.84½—4.84½	4.85—4.85½
New York ..	S to £	4.86½	4.85½—4.85½	4.85½—4.85½
Oslo ..	Kr. to £	18.159	22.15—22.16	20.93—22.96
Paris ..	Fr. to £	25.22½	168½—168½	170½—170½
Singapore ..	Per dol.	—	27½d.—28d.	27½d.—27½d.
Sofia ..	Lev. to £	25.22½	665—680	665—680
Stockholm ..	Kr. to £	18.159	18.15—18.16	18.14½—18.15½
Switzerland ..	Fr. to £	25.22½	25.11—25.12	25.10—25.11
Venna ..	Sh. to £	24.02	34.37—34.41	34.37—34.40
Warsaw ..	Zloty to £	25.22½	42—45	42—45



Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Scarcity of Drug Addicts

SIR.—My father, who was apprenticed about 1865 to a chemist in Norfolk, often told me of the number of customers who on market days came in for a drachm of laudanum, and this was taken to cure ague. They would come in shivering and shaking, and the laudanum quickly soothed and relieved them. Ague was very prevalent in the marshes in those days, and quinine was far too expensive and not much known. The laudanum was made on the premises and was not B.P.; it was usually prepared with some alkali to increase the colour. These customers were not drug addicts, and only took it as a remedy for ague.—Yours truly,

W. H. P. (9/10).

SIR.—While pleading "Not guilty" to the attitude of unbelief adopted by the old lady quoted by "D. D. A." (C. & D., October 9, p. 585), yet I cannot get away from the fact that the experience of many of your correspondents has been the same as my own—that is, of never having come into actual contact with a drug addict who has wished to purchase continued supplies of opium, laudanum, or cocaine. As my experience is of about the same duration as that of "D. D. A." and includes a variety of employment in pharmacies in London and the provinces, including also some time in Lincolnshire, it seems to me very strange that at one place or another I should not have come across some of this drug addiction if it had been so rife as "D. D. A." states. But I agree with "D. D. A." in his criticism on the methods of applying the Act. Take, for example, the necessity of a prescriber being required to write the amount of a drug contained in a package of proprietary pills or tablets; is it likely that he will know how many pastilles are contained in the box, or the total amount of "dangerous" drug? To have dilutions of such preparations as liq. morph. on the dispensing shelves might be a solution of the difficulty and inconvenience of unlocking the cupboard each time a simple mixture with only a drachm or so in it is dispensed, but to keep dilutions on the dispensing counter shelves would entail more expense and trouble.—Faithfully yours,

PAPAVER (11/10).

Chemistry House

SIR.—My attention has been drawn to your editorial article in the C. & D., September 18, p. 482. I think you have quite misunderstood the intention of our speakers who desired to make no invidious distinction between the pharmacist and the chemist; and the allusion to a "stolen" title is due to a like misunderstanding. A special committee of this association has considered the question of title, and a recommendation was made by them which would probably be perfectly acceptable to both parties. In all its published matter the association has always alluded in terms of sincere respect to the profession of pharmacy, and it would be distressed to think that a wrong construction should unintentionally have been placed upon anything said at that meeting.

Yours faithfully,

Hy. T. T. RHODES,
General Secretary,
British Association of Chemists.

175 Piccadilly, London, W.1.

The Committee on Poisons

SIR.—It is a great pity that the minutes of the evidence given before the Departmental Committee are not to be published, as the ordinary chemist will have no means of knowing what has taken place, or how his case has been stated, and will have to content himself with the final report, which will presumably merely give the findings and recommendations of the Committee. As it is possible that these findings may have far-reaching

results in regard to the future of retail chemists, it would seem only right that they should have access to the evidence given for or against them. If any radical change is required in the administration of the poison laws, Dr. Tocher pointed out very definitely where it should come in his address at the opening of the School of Pharmacy (C. & D., October 9, p. 569), when he related an incident in which a purchaser of strychnine had given some to a friend with fatal results to a valuable animal. Dr. Tocher asked whether such a purchaser could legally give away part of his purchase; under the present Acts I see nothing to prevent him doing so. That is the weak part of these Acts, and it should be possible to render the buyer responsible for the proper use and safe keeping of the poison he has acquired. This would relieve the chemist from the censure which is now so often unjustly laid on him in the case of an accident.

Yours truly,
DISTRIBUTOR (12/10).

"Direct Supervision"

SIR.—The cat is now badly out of the bag, and it remains to be seen how far and in what direction it will jump. We have been waiting for an opinion on the present position of dispensing, and from "Xrayser III" we have it—especially regarding Insurance scripts, which are apparently mainly prepared by unqualified dispensers, otherwise "existing terms would be unremunerative." An exceedingly important point is raised by "Checker" (C. & D., October 9, p. 585), in showing that each panel patient requires twice serving. It was stated some time ago by a correspondent that the overhead charges in the particular business amounted to 1.64d. per head for each single customer; and as this has to be doubled in the case of a panel patient, it leaves the munificent remuneration of 1.22d. for each script dispensed. "Checker" alludes to private prescriptions, but whatever be their fate, Insurance scripts must always, according to agreement, have been dispensed "by or under the supervision of a qualified pharmacist," so that this part is really nothing new—it is only rubbing it in. I also submit that Regulation 7 of the Dangerous Drugs Regulations, 1926, applies equally to medical men as well as to pharmacists, for it says: "Every person authorised . . . to carry on the business of . . . distributing the drugs shall keep the same in a locked receptacle, of which the key shall be kept by himself or a qualified assistant." It does not specify a retail pharmacist, and it would appear that the doctor must either do the dispensing himself or employ a pharmacist. The whole thing is a parlous position for proudly privileged poison purveyors.

Yours truly,
TONIC (9/10).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics

Appreciations

I should be lost without your Retail Price List.—W. F. (1/10).

The more one sees of the C. & D. the less one feels he can manage without it. It still is the best of its breed.—J. B. H. (7/10).

Paper as Test-tube Cleaner

The ordinary wire test-tube brush is not all that could be desired for cleaning test tubes. A better plan is to use paper rolled up like a spool which when inserted in the tube spreads out and swells to the sides and by a few twists removes adhering precipitates and even grease patches effectually.—Abel Scholar.

Mist. Lavand. Co.

We desire to thank several subscribers who have supplied us with the formula of this mixture ordered for use in Post Offices (C. & D., October 2, p. 554).

Spt. chlorof.
Tr. lavand. co. ad. 3j.

Signe: For periodic pains. One teaspoonful to be taken in water when required.

Legal Queries

A. C. R. (11/10).—The title "Chest and Bronchial Mixture" on your label does not render the preparation liable to medicine-stamp duty.

S. C. (28/9).—The use of the Balsam of Aniseed carton, with recommendations for various ailments, would involve liability to medicine-stamp duty.

T. R. E. (5/10).—So long as the disinfectant is not recommended for the prevention or treatment of ailments it is not liable to medicine-stamp duty.

L. C. (1/10).—If the brand name you mention applies solely to the influenza mixture the article will be liable to medicine-stamp duty, even though the ingredients are stated on the label.

J. L. P. (4/10).—Tr. iodi mitis is not a scheduled poison. The *C. & D.* series of poison cards is the best guide to chemists as to the numerous regulations governing the sale of poisons.

F. A. L. (28/9).—If proprietary rights are claimed by means of a fancy name in a title applied to a "known, admitted and approved" remedy the article would be liable to medicine-stamp duty.

E. M. S. (8/10).—(1) "Drawing Ointment" expresses the action of the ointment on a wound, and the use of the title would involve liability to medicine-stamp duty. (2) Lead acetate is not a scheduled poison.

H. R. N. (29/9).—An article that has once been subject to stamp duty cannot subsequently be sold un-stamped by converting it into a "known, admitted and approved" remedy if the composition is identical.

A. H. C. (21/9).—Black hellebore is stated by the *B.P.* Codex to contain two poisonous glucosides, but since these are not included in the Poisons Schedule there is no legal requirement to label ext. hellebore nig. "Poison."

J. H. J. (4/10).—A qualified chemist can sell "known, admitted and approved" remedies without the articles being stamped. Your name and address should be on the label, or it would be open to the Board of Customs and Excise to prosecute you to make you prove your right to sell the remedies without stamping.

S. & H. (29/9).—Both tincture of jaborandi and tincture of cantharides are scheduled poisons, and preparations containing them have to be labelled "Poison," with a statement of the proportion of the poison contained in the article. Tincture of cantharides being employed in hair washes as a stimulant, might be replaced by tincture of capsicum, but we know of no non-poisonous equivalent of tincture of jaborandi.

S. H. (1/10).—There is no Act of Parliament in this country regulating the practice of sight-testing. There is nothing to prevent an optician employing atropine in sight-testing, but he would be liable to an action for damages if through neglect any injury was caused to the person into whose eye the atropine was instilled. Opticians who hold the diploma of the Spectacle Makers' Company are not allowed to employ mydriatics.

A. B. C. (25/9).—There is no objection to transferring a name from a compound drug to an "entire" drug except that of confusion to the purchaser. Formulas for "known, admitted and approved" remedies can be published in *The Chemist and Druggist Diary*, and the reference number given on the label of the article. Care must, however, be taken not to incur liability in other ways, such as by claiming proprietary rights in the article.

Cyanide (5/10).—(1) Particulars regarding the registration of trade-marks are given in the *C. & D. Diary*, 1926, p. 309. (2) If you claim any proprietary rights in the name you propose to employ for the headache powder it would render the article liable to medicine-stamp duty. It is assumed that the powder is not an "entire" drug. (3) The grounds of liability to medicine-stamp duty cover the prevention of ailments as well as the treatment and cure.

N. L. B. (30/9).—Pills containing extract of belladonna can only be sold retail by qualified chemists.

J. G. B. P. (27/9) has an apprentice to whom he pays 2s. 6d. a week pocket money. Next month the lad will reach the age of sixteen. What will be the position as regards Health and Unemployment Insurance? [As the lad is in receipt of a money payment he will have to be insured under both schemes. It is possible that he might be granted exemption upon the ground that he is dependent upon some other person; but, even in that event, "J. G. B. P." would still have to pay the employer's share of the contributions every week.]

G. C. (27/9).—(1) The following are the poison declarations for the formulas you send:—*Female Pills*: This is a Part I poison, and should be labelled: "Each pill contains ext. ergot. B.P. 1 gr., and ol. sabinae $\frac{1}{2}$ —Poison." *Balm of Liquorice*: "Contains tr. opii B.P. '98 1 in 26 $\frac{1}{2}$, and tr. chlorof. et morph. co. B.P. '98 1 in 160—Poison." (2) The use of a name in the possessive case, as in the title of some of these articles, would render them liable to medicine-stamp duty, even though they were registered as "known, admitted and approved" remedies.

X. Y. Z. (4/10).—(1) It is not possible to state definitely what quantity of a proprietary article constitutes a bulk package supplied unstamped for dispensing. Tablets cannot usually come within the concession which allows the sale of unstamped proprietaries for use as an ingredient of a prescription. Practically the concession only applies to a liquid preparation which is one of two or more ingredients in a mixture. (2) The Medicine Stamp Act states that chemical preparations are liable to duty if they have been prepared or sold under the authority of any Letters Patent under the Great Seal. This includes single drugs the preparation of which has been the subject of a patent.

R. C. P. (3/10) is engaged as the chief pharmacist to a hospital. With the consent of the committee he has taken an apprentice, for whom a premium was paid to "R. C. P." The apprentice does hospital work, but does not receive any wages. In the event of the apprentice meeting with an accident, would "R. C. P." or the hospital be liable to pay compensation? In other words, who should insure against employer's liability risk? [In our view, as the apprentice's contract is with "R. C. P." and not with the hospital, "R. C. P." would be liable to compensate him in respect of any injuries he may suffer while at work, and "R. C. P." should effect the necessary insurance.]

A. P. (2/9).—A limited company supplies a proprietary preparation in cardboard cartons upon which the company's name does not appear. Inside the carton is enclosed a leaflet, relating to the preparation, upon which the company's name and address are stated. Must the directors' names also be disclosed on this leaflet? [If the company was registered after November 22, 1916, the names and, if not British, the nationality of the directors must be given "in all trade catalogues, trade circulars, show cards and business letters" upon which the company's name appears in conformity with the requirements of the Companies (Particulars as to Directors) Act, 1917. The question is whether the leaflet is a trade circular. In our view, it is; and we consequently consider that the directors' names must be shown upon it.]

A. E. W. (4/9).—A's and B's premises adjoin. B is having electric light laid on, and the wires have been fixed to A's outer wall. Is B committing a trespass, and, if not disturbed, will he acquire a right to keep the wires there? [Technically, B is committing a trespass, and may be compelled to remove the wires. He may acquire a right to keep the wires there if they are allowed to remain for twenty years without acknowledgment of A's right to order their removal. We advise A to obtain from B a written acknowledgment that the wires have been fixed with A's permission and an undertaking by B to remove the wires immediately upon being given notice by A to do so. The document might also provide for the payment by B of a nominal sum to A for the privilege of using A's wall for the support of the wires.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

H. A. (14/8).—PURIFYING BENZIN.—The original object of treating petroleum spirit with sulphuric acid and potassium bichromate was to remove sulphur compounds which gave it a bad odour. Nowadays special spirit for dry cleaning is made on a very large scale, and is obtainable from rectifiers or drysalters who specialise in laundry requisites. Modern petrol is unsuitable for purification by this method as it contains increasing amounts of "cracked" (unsaturated) hydrocarbons (between 10 to 30 per cent., which will react with sulphuric acid). It would be cheaper to buy a cleaning spirit through your drug house or from a local dry cleaner than to try to carry out the treatment yourself.

Virus (9/9).—MICE POISON.—You do not give any indication of the variety of mice poison required, but probably the kind containing phosphorus is the most popular :

Phosphorus	... ... ...	5iis.
Warm water	5i.

Warm gently until the phosphorus is melted, then add to :

Beef suet	5iis.
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Mix well and add :

Powdered biscuit	5ix.
Meat extract	3i.

and add sufficient water to make into a paste.

G. F. H. (9/9).—PLANT FOR IDENTIFICATION.—The root you send is not really sufficient for exact identification, but we think it belongs to *Myrrhis odorata*, Sweet Cicely. This grows in wet woods in the North of England and in Scotland. The plant has an anise flavour.

J. C. (10/9).—Skin that has been burned with nitric acid will recover its normal appearance in time, but as a help a thick paste of magnesia and glycerin may be applied to the part for a few days.

D. T. N. (11/9).—Most of the Australian states admit chemists qualified in Great Britain to the local register of chemists on making the required declaration and paying the examination fees. If you go out you should take with you your certificates and evidence from the Registrar that you are the person named on the certificate. "The Chemist and Druggist of Australia," Sydney and Melbourne, will put you in touch with the particular State Pharmacy Board required.

Yorks (11/9).—We are unable to give you exact information regarding the deodoriser used in the earth closet referred to. We gather that an odourless liquid is employed, and we suggest that this may be zinc chloride solution.

A. E. T. (13/9).—DISPENSING PRICES.—The correct price for the prescriptions, on the *C. & D.* Costing System, is mixture 3s. 3d., powders 2s. 7d., mixture 2s. 6d. [Our correspondent informs us that the customer stated that these had been charged by another chemist 1s. 6d., 1s. 3d., and 1s. 8d. This again shows the necessity of more attention being given to the correct pricing of dispensed medicines. This can only be accurately carried out by means of the *C. & D.* Price List.]

C. E. H. (14/9).—The rate of pay for an improver with your experience varies from 40s. to 50s. weekly.

S. C. G. (15/9).—The smelling salts, with label affixed as you send it, can be sold unstamped by qualified persons as a "known, admitted and approved" remedy, provided the necessary reference is given to the standard work of reference where the formula is to be found. It is assumed also that the brand name is applied to a series of articles.

J. N. N. (15/9).—We do not think that "muscle stiffness" would be regarded as an ailment under the Medicine Stamp Acts if it was made clear that the stiffness referred to is the result of athletic exercises. The expression "joint-stiffness" is doubtful, as this may refer to rheumatoid arthritis.

J. D. (16/9).—FURNITURE WORM.—A table infected with wood-worm must be treated drastically if the evil is to be prevented from spreading. Treatment consists in soaking the part with paraffin or exposing to the vapour of benzin, so that the liquid penetrates into the holes. As the powdered wood produced by the worms is moisture-repelling there is a difficulty in ensuring the liquid entering. If it is a leg of the table that is affected this could be stood in a vessel filled with paraffin and left there for a day. An alternative application is the tetrachlorethane preparation, of which the formula was given in the *C. & D.*, November 21, 1925, p. 744.

S. H. L. (16/9).—The label you send would, on the face of it, render the lozenges liable to medicine-stamp duty. We suspect, however, that the article is supplied in bulk packages and retailed in screwed-up paper packages, in which case the lozenges would not come within the charge of duty.

G. C. S. (16/9).—HONEY AND FLOWERS.—See *C. & D.*, August 22, 1925, pp. 78 and 288.

L. J. H. (16/9).—FALLING HAIR APPLICATION.—The use of tincture of iodine which your customer was recommended by a French doctor as an application to the scalp for falling hair, is probably intended to act as an antiseptic. It would be better, however, in view of your customer's hesitation to employ a half-strength tincture (1 in 20, in place of 1 in 10).

A. & Co. (16/9).—TOBACCO FLAVOURS.—Two formulas for "gold flake" flavour given in the *C. & D.*, April 17, p. 582, show the method of compounding these flavours.

B. R. (16/9).—KILLING A TREE WITHOUT FELLING.—Boring the stem of the elderberry tree and filling up the holes with sulphuric acid will kill the tree. It would probably be better to lop off any branches that can be got at, so that the dead tree is not unsightly.

*M. J. C. (5/10).—We are unable to supply the formula required for motor-car varnish. The number of the *C. & D.* containing the sulphuric acid dilution table can be obtained from the Publisher at 9d. post free.*

Retrospect of Fifty Years Ago

Reprinted from
"The Chemist and Druggist," October 14, 1876
First Irish Pharmaceutical Council

We have known no episode in modern pharmacy so curious as the short history of the events immediately preceding and associated with the formation of the Irish Pharmaceutical Society. The "Chemists' and Druggists' Society of Ireland" was established only in the beginning of 1873. It was promoted by a few Dublin druggists who aimed at getting from the Apothecaries' Company certain concessions which would make pharmacy in Ireland a little less different to all other kinds of pharmacy. The Apothecaries' Company, with one foot on pharmacy and the other on medicine, and a gulf threatening absolute annihilation between, felt itself in a somewhat precarious position. The other medical grades had been seeking for a long time to push off the foot on their stone, and now the druggists had started to work at the other leg. The apothecaries coquetted with their new invaders, who found their task much easier than they had at first anticipated. Standing by was the British Pharmaceutical Society, ready and willing to help if their aid should be invoked, and beyond the apothecaries stood the College of Physicians, offering both encouragement and inducement to the druggists to proceed. The difficulty of these latter was not in finding but in selecting their friends. This was not all; for the British Government no sooner heard of what they wanted than it came forward, and in the most handsome manner possible promised to do everything, to give Home Rule, other people's titles, reciprocity, if it should be desired, with the English Society, and no trouble at all in Ireland. What is perhaps still more curious than all the rest, the British Government actually performed what it had promised, and thus, in only about thirty months after the first word had been spoken, the Irish Pharmaceutical Society was organised by Act of Parliament, under the most distinguished patronage, the agitators had got more than they had ever thought of asking for, and the whole conditions of pharmacy in Ireland were changed.



[Commenced C. & D., July 5, 1924]

Gunpowder consists of a carefully prepared mixture of charcoal, potassium nitrate, and sulphur. Dried English gunpowder approximates potassium nitrate, 75; sulphur, 10; and charcoal, 15; the normal product containing between 3 and 5 per cent. of water. This composition is typical of the bulk of gunpowder used for blasting purposes and in sporting cartridges. The ingredients used in making gunpowder require special preparation and mixing; the ultimate object being to secure even burning, both as bursting charge or as a propellant. The charcoal used in making gunpowder is obtained by controlled carbonisation of dogwood (from *Rhamnus frangula*) or willow (*Salix alba*) in closed cylinders. For quick-burning sporting powder, consisting of small grains, dogwood charcoal is preferred, and carbonisation is conducted at a temperature which produces a "slackly burnt" charcoal with a brown-black colour. For large-grained blasting powders a jet-black willow charcoal is preferred, and it is made by carbonising at a higher temperature, giving a product with a higher carbon content with slower-burning properties. The potassium nitrate used is made into a "nitre flour" consisting of small crystals by stirring its saturated solution during cooling. The sulphur used is obtained from pyrites or recovered from alkali waste (calcium sulphide). It requires special purification by distillation and condensation in liquid form. Flowers of sulphur is not suitable owing to traces of acid being present. The processes of preparing grains of gunpowder consist in making a preliminary mixing of ingredients (or green charge) in a rotary drum mixer with gunmetal arms. This is worked into a "mill-cake" in a mill fitted with iron-edge runners and wooden ploughs covered with leather, damping with water to prevent both dust formation and ignition. The mill-cake is made into a meal by passage between gunmetal rollers. This operation ensures evenness of material passing to hydraulic presses, which form the press-cakes (by subjection to 375 to 450 lb. pressure per sq. in. for about half an hour). This operation is repeated slowly several times in order to increase the density of gunpowder. After trimming, the press-cake is converted into grains by passing through a granulating machine fitted with screens for grading the grains, which are next freed from dust by passing through an inclined cylinder of copper gauze. The powdered grains are finally glazed in cylinders running at about twelve revolutions per minute, which generates sufficient heat by friction to produce a brilliant gloss. A lubricant, such as graphite, may be added to assist this process with blasting powders. At each stage the products are blended wherever possible so that the batch gives uniform results on "proving." Gunpowder is still largely used in mining for blasting purposes, but smokeless (nitro-cellulose) powder has superseded it as a propellant except in cartridges for sporting guns. Sporting powder burns more rapidly owing to being made with slack-burnt charcoal (see above). The large grained blasting powder is compressed into cartridges and frequently the proportion of nitre reduced (65 per cent. instead of 75 per cent.) to produce a still slower burning product. Blasting powder is not suitable for use in firing mines, and "black powder safety explosives" were modifications designed to overcome this objection, but the "safety explosives" now in general use in mines consist essentially of ammonium nitrate.

Gurjun Balsam, also known as gurgun oil (*Balsamum Dipterocarpi*) and wood oil, is yielded by several trees of

the genus *Dipterocarpus* (N.O. *Dipterocarpaceæ*), but chiefly by *D. turbinatus*, Gaertn., a native of Eastern Bengal, Chittagong and Pegu to Singapore and French Cochin China. That of *D. trinervis*, Bl., is especially preferred in Java, and in French Cochin China that of *D. alatus*, Roxb. When obtained by the action of fire in a large cavity scooped out in the trunk of the tree, the exuded product on being allowed to settle forms a clear liquid which separates from a thick portion called the "gud." The clear portion as imported, chiefly from Chittagong, being obtained from different species and in different districts, naturally varies considerably in its properties. Usually it is a thick viscid fluid exhibiting fluorescence; when placed between the observer and a strong light appearing perfectly transparent and of a dark reddish brown, but viewed by reflected light it appears opaque and of a dingy greenish-grey. Its s. g. is about 0.964. When heated to 220° C. in a closed glass tube it becomes an almost solid mass. Its chief interest to pharmacists is that it is used as a substitute for copaiba in India, and was introduced on that account into the Pharmacopœia of India in 1868. It is of interest to note that Maracaibo copaiba, which is also fluorescent, was found to contain meta-copaivic acid, which is stated to be probably identical with gurjunic acid. The latter, however, melts at 220° C., whilst meta-copaivic acid melts at 200° C. Gurjun oil is frequently imported into this country in commercial quantities. In October 1855 2,000 lb. were imported into London under the name of East Indian balsam capivi, and it frequently appears at the London drug sales and in wholesale price lists, and under the name of ol. gurgun is offered at less than half the price of copaiba. Gurjun oil is exported from Singapore, Moulmein, Alsyab, the Malay Peninsula, and is a common article of commerce in Siam. In the Philippines it occurs abundantly, and is sold at Albay, where it is known as "balao" or "malapopo." In the Philippines and other localities of production it is boiled to remove the essential oil, and then used as a preservative varnish against iron rust and as timber against white ants and other insects, and for an application to the bottoms of boats and ships, also as a preservative for bamboo articles. The volatile oil is said to have been used to adulterate palmarosa oil (Parry), but can be detected by dissolving five to ten drops of the suspected oil in five c.c. of glacial acetic acid containing five drops of nitric acid; if gurjun oil is present a red violet colour is developed. Gurjun oil yields from 45 to 70 per cent. of essential oil. The gurjun oil of *Dipterocarpus tuberculatus*, Roxb., the "ein" or "engben" of the Burmese, yields only 33 per cent. of volatile oil (Parry). The leaves of this species are used for covering catechu or cutch. The correct spelling of the name is gurjun, not gurgun. The wood oil imported from China is quite a different article, being a fixed oil derived from *Aleurites Fordii* and other species (N.O. *Euphorbiaceæ*) having strong drying properties, and now largely imported and used by railways, etc., in this country as a cheap substitute for linseed oil. The Chinese name tung oil is the best name by which to distinguish it in commerce. Fuller details on gurjun oil can be obtained from "Pharmacographia" and Spon's "Encyclopædia."

Gut Skin.—This is obtained from the intestines of oxen and sheep, those from the former being mainly used in the preparation of alimentary substances, such as sausages and polonies, and the latter for the manufacture of cords or strings for musical instruments, etc. See also Goldbeater's Skin and Catgut.

Gutta-percha Tissue.—Pharmaceutically, this is used chiefly as a covering for moist dressings. The standard for National Health Insurance purposes is that of the British Pharmaceutical Codex, namely, the superficial area must be not less than 648 and not more than 730 square inches per ounce. It is as well not to hold too large a stock, owing to deterioration with age; it should be stored in a moderate temperature, away from hot-water pipes.



Gutta Percha.—This remarkable product was brought into prominent notice in 1842 by W. Montgomery, although known in Europe long before that date. It consists of the dried milky juice of various trees belonging to the natural order *Sapotaceæ* growing in Malaya, Borneo, Sumatra, Ceylon, etc. It was formerly obtained by felling the trees and incising the bark as the trees lay on the ground, with the result of considerable loss of juice from the underside of the trunk and of rapid decrease in the number of trees. At the present time alternate sections of the bark are stripped off the living trees one year and others the next, so as to allow the tree to grow unchecked. Gutta percha is a leathery solid, but is not flexible like indiarubber. It becomes plastic at 65° C. and burns brightly when set on fire, and is resistant to acids and alkalies. It can be bleached by solution in carbon disulphide and filtration through animal charcoal. It differs from indiarubber in not being vulcanised by heating with sulphur (unless first melted with indiarubber). The principal botanical source of gutta percha is the *Palaquium oblongifolium*, Burch, *Dichopsis Gutta* (B.H.), the vernacular name of which is getah or gutta taban merah. There are, however, many other trees of the natural order *Sapotaceæ* from which different qualities are obtained. A Mincing Lane correspondent has given us the following note:—Gutta percha varies very much in character and quality according to the particular district from which it is obtained. The best known commercial quality is from Palang. Various methods are employed to extract the juice, the most general being the boiling out of the juice after the tree has been cut down. The destruction of trees has been so extensive in recent years that numerous experiments are at present being conducted to extract the juice from the living tree, similar to the method employed in the obtaining of latex from the indiarubber tree. This class of gutta percha is termed "plantation gutta," but so far has not been received in any large quantity. A favourite form of bringing gutta percha to the market is to mould it in bottle-like form with handles, all of which is gutta percha itself. These are carried to the depots on poles by the natives—a custom which is still in force to the present day. When the gutta percha is extracted in its original form, it is known on the London market as genuine gutta percha—this is to show the difference between that and the re-boiled gutta percha, the latter being a partly made-up article, two or more varieties being mixed together to form the re-boiled gutta percha. The principal districts of supply are Pahang, Kelantan, Siak, Bolungen and Sarawak. Small quantities are also exported from Siam and Manila, and a lower grade from Nigeria. From Borneo is obtained the well-known "leaf gutta"; this is extracted from the leaves and small twigs of the tree, and is boiled, cleaned, and pressed into slabs and cakes. It is of an olive-green to a light straw colour, and is considered by some users to be the prime of the gutta family. Unfortunately, when kept for any length of time, it oxidises freely and becomes brittle; this is the case with all varieties in more or less varying degrees. The resin obtained when extracted is used again in "reclaiming" work. Gutta percha is the balata of the old world, as balata is the gutta percha of the new world. Within the last few years a similar juice or gutta percha has been produced in South America from Iquitos and Manaos and the surrounding neighbourhood of Peru. At the moment this is in its experimental stage, as the residue or resin is found to be too hard or brittle, but the product (i.e., hydrocarbon) is the same as found in the gutta percha of the East Indies. The principal use of gutta percha is in the manufacture of deep-sea cables, land cables, golf balls, and for insulating purposes. It is also used extensively in belting manufacture and waterproofing boots, and a very small quantity of the very finest quality only is used in dentistry. Gutta from the East Indies is packed in cases of two cwt. and baskets of about 160 lb. From South America it arrives in the form of blocks covered with gunnies, weighing from half-cwt. to one cwt. each, and also in cases of from three cwt. to five cwt.

The following statistics relate to Germany, Italy and the United States:—

Guttapercha, crude and refined

GERMANY

	Imports			Exports		
	1923	1924	1925	1923	1924	1925
Total	kilos 223,800	kilos 199,400	kilos 199,700	kilos 25,300	kilos 38,400	kilos 26,100
Brit. India	—	—	39,500	—	—	—
Malacca	—	—	45,100	—	—	—
Dutch E.	—	—	92,600	—	—	—
Indies	—	—	—	—	—	—

Guttapercha, crude, in sheets and blocks

ITALY

	Imports		Exports	
	1923	1924	1925	1923
	kilos	124,200	—	kilos
1923 .. .. ..	..	388,500	..	300
1924 .. .. ..	..	..	50,900	1,700

UNITED STATES

Imports of guttapercha into the United States in 1925 totalled 3,591,081 lb., valued at \$629,284, against 3,154,731 lb., valued at \$463,610, in 1924. No exports are recorded. In the French official statistics caoutchouc, balata, and guttapercha are grouped together.

Gutta Percha and Balata, Commerce of.—The following figures show the imports and re-exports into and from Great Britain from 1920 to 1924 inclusive:—

Imports

From	1920	1921	1922	1923	1924
	Centals of 100 lb.	Centals of 100 lb.	Centals of 100 lb.	Centals of 100 lb.	Centals of 100 lb.
Germany ..	109	22	1,468	1,171	90
Netherlands ..	1,860	112	545	760	1,022
Dutch Guiana	1,742	7,560	7,997	15,955	4,450
France ..	16,528	2,784	1,327	2,481	1,150
French Guiana	—	2,540	2,848	1,402	1,757
United States	6,449	7,056	6,105	2,487	2,774
Panama ..	2,088	1,841	1,985	2,140	2,283
Venezuela ..	9,030	12,163	11,063	16,609	17,607
Peru ..	20	93	2,766	13,137	12,482
Brazil ..	707	1,150	5,226	10,623	11,943
Other Foreign Countries ..	1,841	1,107	1,387	3,818	5,904
Total from Foreign Countries ..	40,374	36,428	42,717	70,583	61,462
Value .. £	711,781	624,916	547,870	943,723	773,478
Straits Settlements ..	35,698	11,738	16,227	10,965	13,699
Brit. W. Indies	11,155	6,917	3,404	3,174	2,283
British Guiana	13,137	14,893	10,619	10,262	16,773
Other British Possessions ..	1,536	1,017	585	839	1,507
Total from British Possessions ..	61,526	34,565	30,835	25,240	34,262
Value .. £	1,287,277	622,740	449,709	387,944	522,227
Total	101,900	70,993	73,552	95,823	95,724
Value .. £	1,999,058	1,247,656	997,579	1,331,667	1,295,705

Re-exports

To	1920	1921	1922	1923	1924
	Centals of 100 lb.	Centals of 100 lb.	Centals of 100 lb.	Centals of 100 lb.	Centals of 100 lb.
Sweden ..	775	162	530	308	291
Norway ..	1,635	297	394	804	414
Germany ..	1,913	2,033	1,470	1,731	2,436
Netherlands ..	42	254	44	65	65
Belgium ..	817	1,071	1,625	1,845	1,178
France ..	2,660	297	2,006	553	651
Japan ..	889	814	423	364	743
United States ..	1,817	554	1,448	2,136	1,434
Other Foreign Countries ..	1,132	600	1,103	1,646	1,546
Total to Foreign Countries ..	11,680	6,082	9,043	9,452	8,467
Value .. £	192,845	100,763	119,690	126,806	88,718

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LITHIA SALTS
SCAMMONY RESIN

MORPHINE
CODEINE
STRYCHNINE
CAFFEINE
EMETINE
THEOBROMINE
CHLOROFORM

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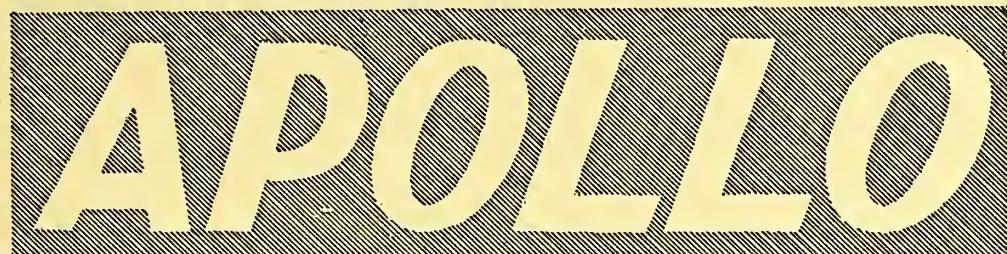
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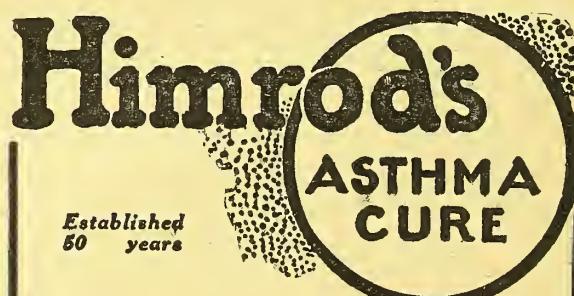
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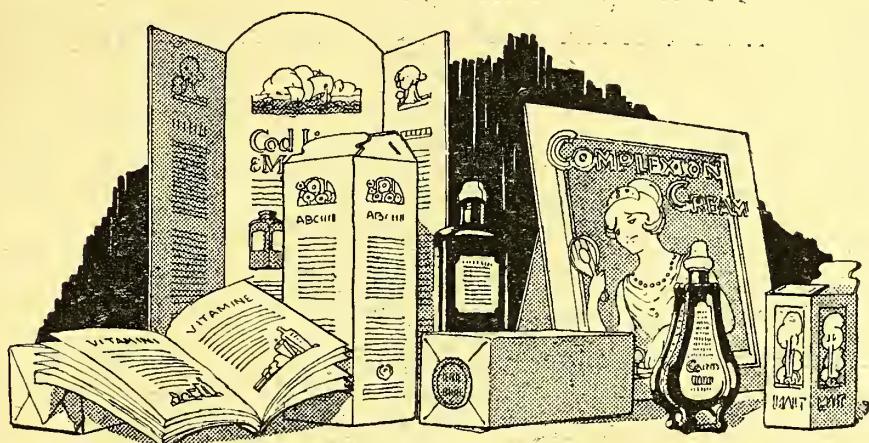
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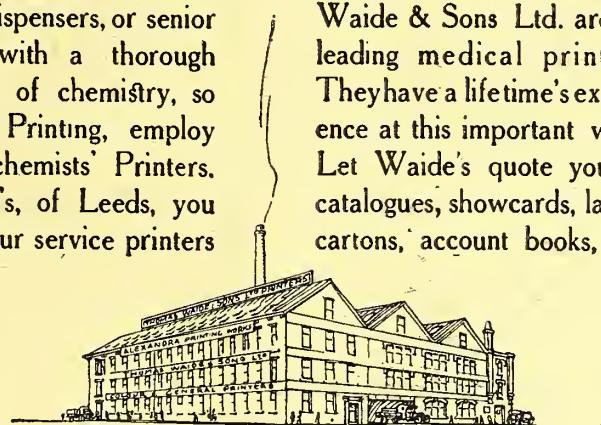
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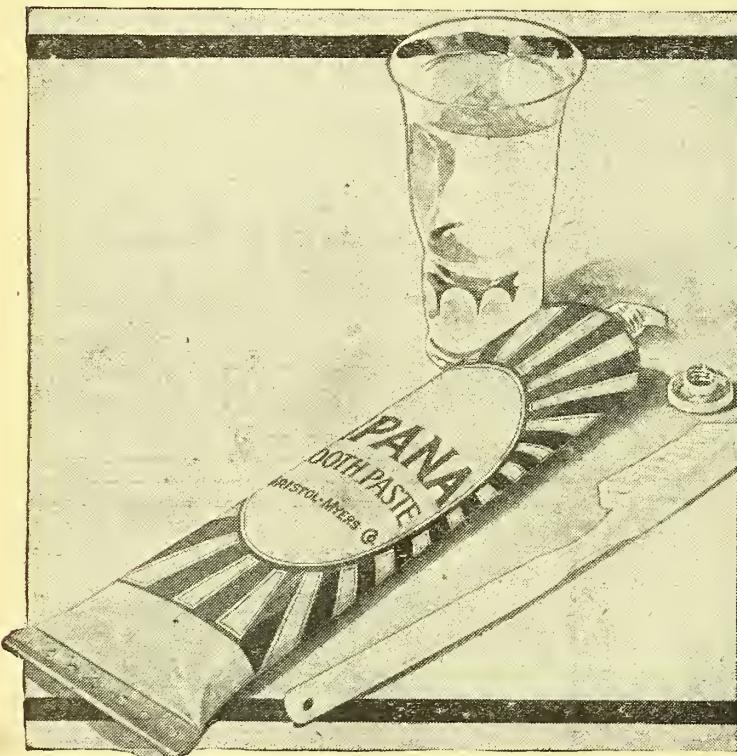
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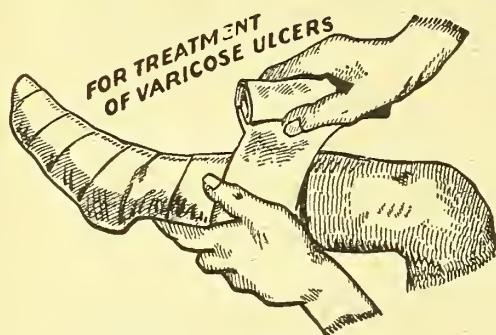
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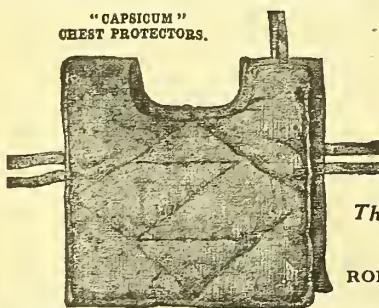
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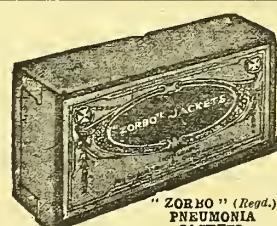
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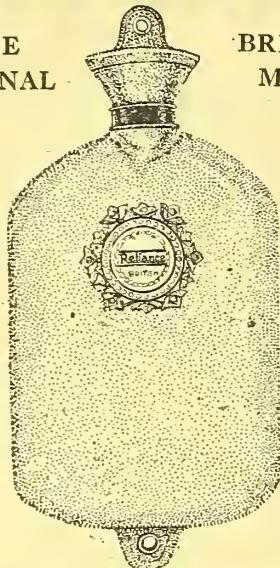
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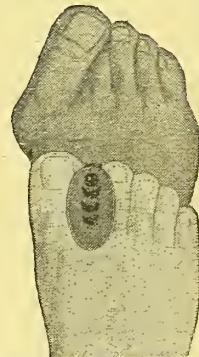
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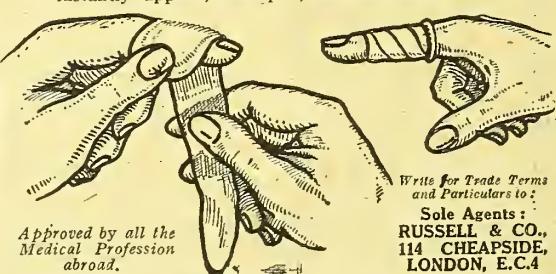
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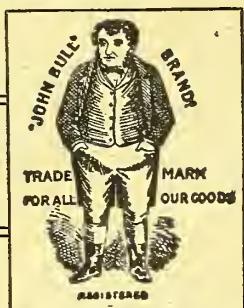
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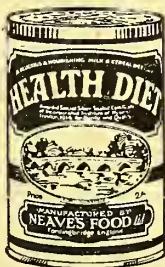
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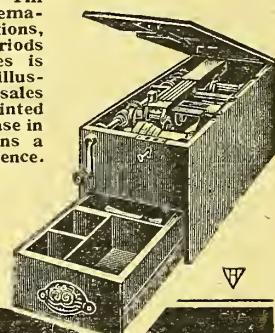
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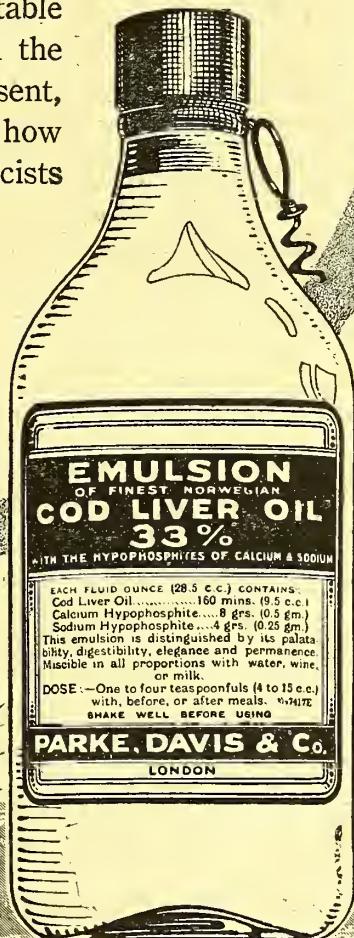
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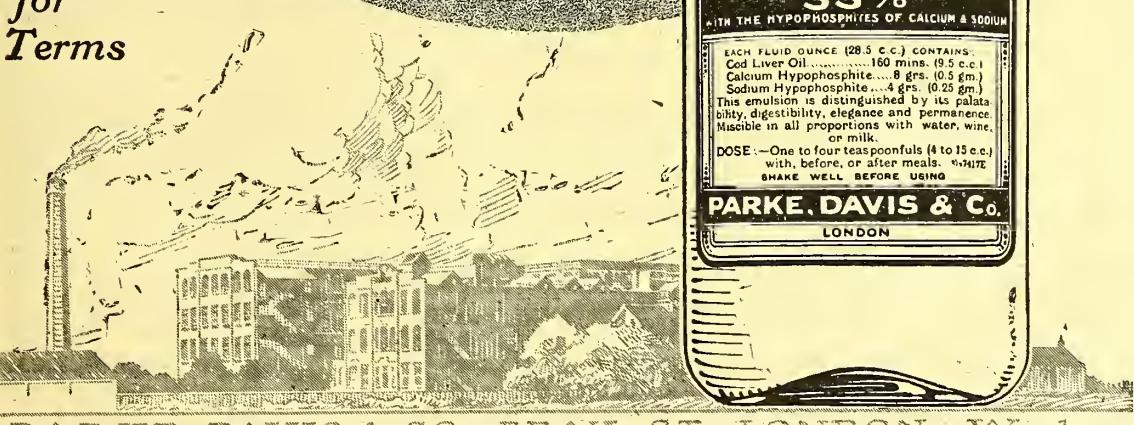
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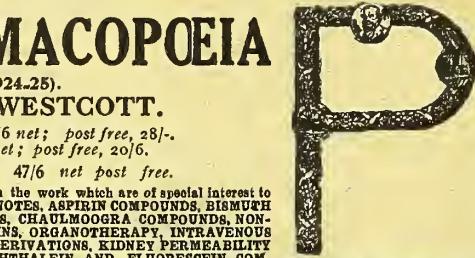


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THE CHEMIST AND DRUGGIST

SUPPLEMENT

42 CANNON ST.
LONDON E.C. 4

OCTOBER 16, 1926

This Supplement is inserted in every copy of The Chemist & Druggist.

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3.—ALFRETON, DERBYSHIRE.—Old-established Business, held on lease, 7 years to run; rent £50 p.a.; returns over £2,000 p.a.; premises on main road, and consist of shop, large house, 4 outside warehouses and garage; proprietor, unqualified, and devoting his time to optical business; price £1,500 all in, or £1,300 without optics; exceedingly good opportunity for energetic Chemist; well worth investigation. (84)

4.—HANWELL.—High-class Dispensing and Retail Business for quick Disposal; established 30 years; held on lease, with 16 years to run, at a rental of £75 per annum; returns average £50 per week, all cash; stock about £700; good house attached; price £1,750. Write for particulars and order. (77)

5.—LONDON, S.W.—Unique opportunity to acquire Cash Retail Dispensing Business, established over a century, situated in busy main thoroughfare; lock-up shop, with store room above; lease 13 years at £100 p.a.; returns approximately £50 per week under management; well fitted and good saleable stock carried; price for quick sale, £1,750. (38)

6.—LONDON, S.W. SUBURB.—Good-class Retail and Dispensing Business on lease, 20 years to run at £65 p.a.; returns under management £18 per week; could be considerably increased; stock, fixtures and fittings at recent valuation, £682; cash price for quick sale, £700; good reasons for disposal; specially recommended. (76)

7.—GRIMSBY.—£1,000 will be accepted for an old-established Business, freehold, taking £25 a week, all cash; house, shop, warehouse and cellar; stock amounts to approximately £200; death vacancy. Write for further particulars and order to view. (75)

8.—LONDON SUBURB.—Smart up-to-date Cash Drug Stores in good-class district, main road, prominent position; new double front (mahogany and marble), mahogany fittings; returns, £30 per week; could be doubled in registered hands; Kodak Agency; owner-vendor will grant £42. years lease; specially recommended, £1,750; £650 cash, balance to be arranged. (64)

9.—LONDON, N.—The opportunity occurs for energetic chemist to acquire really good Business in a busy locality; double-fronted corner shop, new front, modern fittings; established a century; rent, £80; returns average £45 per week; N.H.I. £40 per month; net profits, £500 a year; strongly recommended; price, £1,750. (79)

10.—TO CLOSE A TRUST.—SALFORD.—Old-established corner Shop, with 3 large windows and large house, part of which could be sub-let; rent, £120 p.a.; returns, £2,000, all cash; price for goodwill, £300; stock and fixtures, about £900; well worth inspection; write for further particulars. (81)

11.—STOCKPORT.—Splendid opportunity to acquire a Business in main shopping thoroughfare; premises on lease; 7 years to run; rent £80, including rates, turnover £1,000 p.a., which can be considerably increased by smart man; no living accommodation; stock and fixtures about £650. (67)

12.—STAFFS.—An excellent opportunity for a young Chemist to acquire a sound and exceptionally profitable Business in a good working-class district; lease 7 years at rent and rates £50 p.a.; nearest opposition one mile; good house and garden; £350 net profits; audited accounts available; fixtures, fittings and goodwill £250; stock at valuation, about £250, which can be adjusted to suit purchaser; part purchase price can remain; inquiries appreciated. (78)

13.—LONDON, S.E.—Cash Drug Stores in busy main road, thickly populated district; turnover last year £755, all cash; could be doubled in qualified hands; no serious opposition; good living accommodation; large garden; quick sale, £500, or near offer. Write for further particulars and order to view. (66)

14.—ESSEX.—Old-established Business; established a century; held on lease with 20 $\frac{1}{2}$ years to run at a rental of £150 p.a.; in good residential quarter; returns £42 per week; stock approximately £1,200. Full particulars on application. (85)

15.—MANCHESTER SUBURB.—Good-class Dispensing and Retail Business in charming residential suburb; returns, £50 per week, all cash; no opposition; Kodak Agency; freehold will be sold £1,000, or let on lease at £90 p.a.; price for lease and goodwill £250; stock and fixtures at valuation, approximately £750. Further particulars on application. (82)

16.—WEST RIDING.—Retail Cash Dispensing Business; main thoroughfare; returns £1,500; stock about £550; £1,250 all; premises consist of spacious shop, cellar and warehouse, house with large garden and private entrance, and contains two reception, three bedrooms, and usual conveniences; freehold property must be purchased; price £1,900. Write to Liverpool office for further particulars and order to view. (79)

Stocktaking and Valuation of Businesses undertaken at moderate inclusive fee. Chemists are invited to consult us in respect of their requirements in connection with sale or purchase of businesses. Chemists in the North are requested to communicate with our Liverpool Offices.

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WILLIAM S. FISH.

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2.—NORTH-EAST COAST.—Good-class Business, in popular seaside resort; returns £1,300; good prospects; main road position; well stocked; through ill-health will accept £850 for early sale.

3.—WEST MIDDLESEX.—Well-established Light Suburban Retail; increasing; returns over £2,000; net profit £700; good house; low rent; long lease; fully stocked; price £1,750.

4.—WESTCLIFF-ON-SEA.—Light Cash Retail, with Kodak Agency; in good position; returns £1,800; good profits; convenient house; fully stocked; price for quick sale, £1,150.

5.—SOUTH COAST.—Middle-class Cash Retail, in main road position; returns £1,100; net profit £300; low rent; long lease; lock-up shop; stock worth £450; price £775, or near offer.

6.—LONDON, S.W.—Profitable Cash Retail; under unqualified manager; returns about £1,550; plenty of scope; low rent; small living accommodation; price £775; worth attention.

7.—LONDON (WESTERN SUBURB).—Profitable Cash Retail; under unqualified management; present returns £10 a week; was doing £18; rent 15s. a week clear; price for quick sale £350; suit beginner; owner left trade.

8.—TOTTENHAM COURT ROAD (near).—For quick disposal, very profitable Chemist's Business, with Optics; returns £1,650; net profit £699; books audited; modern well-fitted pharmacy; good stock; price £1,000; £350 can remain.

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SCOTTISH Firm (Chemical), old established, is open to consider Sole Representation in Scotland of first-class house. 91/117, Office of this Paper.

TO Manufacturing Chemists, Photographic and Sundry Houses. Experienced Irish Agent, first-class connection, is open to negotiate re additional lines on commission basis. 243/3, Office of this Paper.

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HERTS.—Small unoccupied Chemist's Business for immediate disposal in attractive and growing district on main road within 30 miles London; returns average £15 weekly; lock-up shop, held on lease at low rent, well stocked; N.H.I. and Kodak Agency; best offer secures. 246/31, Office of this Paper.

LONDON.—Exceptional offer; well-established Light Cash Business in busy shopping centre; turnover nearly £90 weekly; good profits; Kodak Agency; modern well-fitted pharmacy; every convenience; very heavily stocked; price £4,000; only cash buyers need apply. "Owner," 89/969, Office of this Paper.

LONDON, E.C.—Takings £1,800 net; profits £500; profit rental or sublet; sound business in working-class district; must sell quickly. 247/24, Office of this Paper.

LONDON, S.W.—Drug Stores; takings £20 weekly under unqualified neglected management; big scope, wide personal supervision; thickly populated working-class neighbourhood; rent £1 10s., inclusive; lock-up shop and back room; good cellarage; price, all at, £350; worth double; illness sole cause of sale. 245/31, Office of this Paper.

LONDON, S.W.—Opportunity for young Pharmacist or big company; poor locality trade; at present under female management; lock-up and good basement; next door but one to licensed premises; 6 years' lease at £45; owned by private limited company; would consider investment giving employment; absolutely genuine. 247/5, Office of this Paper.

MIDLANDS.—Drug Stores; recently opened; large corner shop; large window; rent 7s. weekly inclusive; taking £5 weekly; qualified with Panel would quickly treble; stock £70; £100 all at for quick sale. 243/6, Office of this Paper.

MONMOUTHSHIRE (main town).—Old-established middle-class business; returns average £2,030 past three years; audited books kept; premises to be sold as well; low rates; mortgage can be arranged; price, including premises, £1,450. Further particulars on receipt of banker's references. 244/40, Office of this Paper.

SOUTH COAST.—Exceptional opportunity to acquire nucleus of Chemist's Business in rapidly growing suburb of popular resort; vendor entering wholesale; valuation less 5% for immediate transfer; stock reduced to suit purchaser; capital required about £250; long lease or freehold may be purchased on good mortgage; stamped envelope, please. 243/4, Office of this Paper.

SOUTH COAST.—Modern Cash Business, returning £3,500 per annum; attractive shop, new front; stock and fixtures worth about £2,000; freehold can be purchased for £1,500. For further particulars apply "Vendor," 91/123, Office of this Paper.

UXBRIDGE (centre High Street).—Old-established, high-class Chemist Business; lease of large fronted shop and living accommodation; 2½ years' pur.; auditor's figures. Leno, High Street, Uxbridge.

WESTON-SUPER-MARE or adjacent district.—Business required; sound concern preferred; neglected business or premises with good prospect considered; good living accommodation essential; cash ready for a quick transaction in case of a suitable business; strictest confidence will be observed. Fullest particulars to 246/11, Office of this Paper.

YORKSHIRE COAST.—Retail and Dispensing, with Kodak Agency; large lock-up shop on lease; well fitted and stocked; good position; returns £1,300, with scope; net profit about £350; owing to ill-health reasonable offer about £800 will be accepted. 245/24, Office of this Paper.

ANY person desirous of establishing a Factory of Electrolytical! Hydrogen Peroxide 30% under previous test of working factory should write to 91/116, Office of this Paper.

FOR Sale, Private Company, registered name Class 3 and Class 48; no responsibilities. Apply 240/26, Office of this Paper.

FOR disposal, a well-known Patent Medicine Business with immense possibilities; the medicine is stocked by all wholesalers and multiple shop concerns throughout the country. Replies from principals or their solicitors only entertained. 91/125, Office of this Paper.

GOOD-CLASS Cash Retail, near London; takings average £32 weekly; corner position, main road; plenty of scope; lock-up, double-fronted, heavily stocked; long lease; owner leaving the trade; cash, £700, or near offer for quick sale. 247/13, Office of this Paper.

£220 or near offer; small Chemist Business, doing £15 weekly; scope for large increase; 15 years' lease; neglected; small living accommodation; Satford. 247/22, Office of this Paper.

£300 OR OFFER.—Splendid chance for smart business man; a company of three years' standing; Toilet Preparations, Proprietary Articles, for Sale outright, including valuable stock. Write, J. Downton, 35 Surrey Street, London, W.C.2.

BUSINESSES WANTED.

EASTBOURNE OR DISTRICT.—Advertiser, now in business in provincial town near London is anxious to get to above district, and would like to get into communication with any Chemist who, having a good business in or near Eastbourne, is contemplating selling in the near future. Advertiser guarantees to treat all communications in strictest confidence, and can supply satisfactory references. 247/15, Office of this Paper.

MESSRS. BERDOE & FISH are in immediate want of Businesses, and vendors will find it to their advantage to correspond with us, we having at the present time a large number of genuine cash buyers with from £700 to £4,000 at command, and ready to take over at once; private registers kept, and strict privacy assured. Valuation Offices: 41 Argyle Square, King's Cross, W.C.1.

SMALL Business wanted, London or near, doing about £30 per week; neglected not objected to; cash up to £1,000; reference and strict confidence given. 246/10, Office of this Paper.

WANTED, a small Business, returns about £1,500 to £2,000 per annum; not in an industrial district. Particulars to P.C.B. 51/11, Office of this Paper.

WANTED, Chemist Business within 100 miles of London; net profit £400-£500; good living accommodation; long lease at low rent an advantage; good scope for Optics. Fullest particulars to "Fascist," c/o Messrs. Wright, Layman & Umney, Southwark Street, S.E.

£200 CASH as part or full payment for Pharmacy or Drug Store where living can be made, or would entertain post as Manager with view to succession; in confidence. 247/350, Office of this Paper.

FOR SALE.

ENSIGN Rotary Print Dryer, electric motor drive, with regenerator; gas heating, alternating current; good as new; list price, £27 10s.; accept, £19 10s. Godkin, Chemist, 1 High Street, Tunbridge Wells.

PREMISES TO LET.

FREE STATE.—Well-built Premises to Let, suitable for depot, warehouse, or small factory, 43 ft. by 23 ft., bright, concrete floor, gas, water, electric light, central. Apply, Arthur J. Cahill, Chemist, 82a Lower Dorset Street, Dublin.

SITUATIONS OPEN.

RETAIL.

[HOME.]

BIRMINGHAM.—Messrs. Haywards have vacancy for qualified Chemist; also capable Junior. Apply, Sutton Road, Erdington, Birmingham.

BIRMINGHAM.—Junior Assistant or Improver required for November 1; Dispensing and Photographic, Light Retail. State age, salary, etc., to Williams' Drug Stores, Ltd., Cash Chemists, 255 Lodge Road, Birmingham.

BIRMINGHAM.—Qualified Manager wanted for branch; Dispensing, Photographic, and Cash Retail Business. Apply, stating age, married or single, experience, references, salary required; photograph preferred. 246/27, Office of this Paper.

BIRMINGHAM SUBURB.—Wanted, mid November, Junior or Improver (outdoor), young, with good all-round experience, Photographic, N.H.I., for good-class Pharmacy; time allowed for school and study. Full particulars, salary required, photo (returnable). Apply 245/12, Office of this Paper.

BOLTON.—Wanted at once, gentlemanly unqualified Assistant; Dispensing and Photographic. Apply, giving references, age, and salary required, Hart, Chemist, Newport Street, Bolton.

CHICHESTER.—Wanted at once, Junior or Improver; Light Retail, Dispensing and Photographic. State age, salary required. S. Bastow, Pharmaceutical Chemist, Chichester.

HAMPSTEAD.—Assistant, about 24, in a Family Retail and Dispensing Business; usual hours and half holiday. Alban Atkin, M.P.S., 243 West End Lane, West Hampstead.

LEICESTER.—Qualified Assistant, lady or gentleman; Light Retail and Dispensing. Apply, stating age, height, experience, and salary required, with references, to "Chemist," 245/16, Office of this Paper.

LONDON, E.2.—Qualified Assistant; another kept; middle-class, with N.H.I.; married man; flat over shop provided. State salary required, give particulars of experience, names of references, age, when disengaged, letter only. "Pharmacist," 37 Synder Road, Stoke Newington, N.16.

LONDON, E.—Unqualified Assistant required for N.H.I. and quick counter trade. Apply, giving full particulars, names of references, and salary required. 246/24, Office of this Paper.

LONDON, E.—Assistant; permanency; unregistered; good Salesmanship, Window Dressing, and Business Acumen more important than technical ability; no Sunday; no dispensing; fixed salary; commission on sales and business increase. State fully, age, experience, and salary expected, to 247/23, Office of this Paper.

LONDON, N.W.8.—Capable, gentlemanly Assistant wanted; must be of good address, quick, accurate Dispenser and thoroughly reliable. State age, wages, references, etc. 247/25, Office of this Paper.

LONDON, S.E.—Required, fully qualified lady or gentleman, age 28-30; good Stock-keeper, Salesman, Dispenser (N.H.I.); excellent references required. Apply "D. R.," 245/38, Office of this Paper.

LONDON, S.W.—An experienced Assistant required, about 30 years of age; qualified preferred; a quick and reliable Dispenser for N.H.I. work principally. Apply, giving full particulars of experience, salary required, etc., to R. T. Jennings, 487 Wandsworth Road, S.W.8.

LONDON, W.—Qualified male Assistant as Junior required on the 25th inst.; age about 22. Please send particulars of experience, salary required, and references to Harrington, 15 Kensington High Street, W.8.

LONDON, W.—Qualified man; November or early December; outdoors; live Salesman, Window-dresser; able to control staff and carry out existing organisation; good appearance and manner; tall; age under 35; West-End experience desirable, but not essential. Full particulars, salary expected, etc., to 245/34, Office of this Paper.

LONDON SUBURB.—Wanted, smart qualified Assistant (male); must be capable Dispenser and Salesman. Apply, stating experience, age, height, and salary required. 247/39, Office of this Paper.

MANCHESTER DISTRICT.—Qualified Branch Manager (outdoors) required at once for good-class Retail and Dispensing business; experienced Counterman essential; aged about 30. Address, stating age, height, references, and salary required, enclosing photo if convenient, to 245/5, Office of this Paper.

MIDLANDS.—A successful firm of Chemists are desirous of corresponding with a first-class man capable of opening a business for them in a good business town (main thoroughfare) within 20 miles of Birmingham; good house attached; good commission offered. 246/1, Office of this Paper.

NEAR BIRMINGHAM.—Smart, reliable, qualified Manager required; must be enterprising and tactful; good house; commission on profits; a most excellent opportunity for a man of merit. "M.," 245/2, Office of this Paper.

NORTH LONDON.—Unqualified Assistant, age about 30, wanted immediately for good middle class trade; Dispensing, Window-dressing and Photography; comfortable permanency and good salary to the right man. Give full particulars in first letter, or 'phone Tottenham 1988 for interview. 91/118, Office of this Paper.

NORTH WALES COAST.—Junior; qualified or unqualified; a careful Dispenser. Apply, with particulars, experience, age, salary, state if able to speak Welsh, etc., to Williams, Medical Hall, Holyhead.

PRESTON, LANCASHIRE.—Wanted, lady Dispenser; Minor qualification essential; apply, stating age, experience, salary wanted, enclosing testimonials. 238/23, Office of this Paper.

S.E. **L**ONDON.—Assistant; qualified; young; energetic; good prospects; quick Counter, N.H.I.; full particulars, salary. P.C.B. 51/30, Office of this Paper.

STALHAM, NORWICH.—Assistant wanted in country business; short hours; light work. Apply, with full particulars, to J. H. Denny.

WEST-END.—Qualified Assistant required immediately; first-class Retail, Dispensing business. Apply, stating age, height, and detailed experience, salary required, enclose photo. D. R. Harris & Co., 30 King Street, St. James, S.W.1.

ASSISTANT; London district; unqualified; about 21; must have had experience in busy good-class business; Dispensing, Window-dressing and Photography. Apply 91/121, Office of this Paper.

ASSISTANT (Junior) and an Improver required for middle-class district, both unqualified; must have been well trained. Please state height, age, when disengaged, salary, with full particulars of training; photo if possible. 246/7, Office of this Paper.

DISPENSER, age about 25, wanted immediately; must be used to brisk N.H.I. work and making up stock. Please state salary required and give details of experience, and send photograph (if possible) to L. H. Lester, Bridge Street, Nuneaton.

DISPENSER required at the Norfolk Mental Hospital; must be fully qualified; salary £180 per annum, rising to £200. Appointment is subject to the Asylums Officers' Superannuation Act. Applications with full particulars and copies of three recent testimonials, to be sent to the Medical Superintendent, Norfolk Mental Hospital, Thorpe, Norwich, Norfolk, as early as possible.

GENTLEMAN wanted as Second Assistant. Full particulars to Molson, Chemist, Spalding, Lincs.

HARRODS, LTD., require a qualified Dispenser (male); hours, 9 o'clock to 6 o'clock; Saturdays, 1 o'clock. Apply Production Manager, 44 Hans Crescent, S.W.

JUNIOR male Assistant wanted. State age and salary required. Apply P. C. Geddes, M.P.S., 12 High Road, Chadwell Heath, Essex.

JUNIOR or Improver. State full particulars and salary required, enclosing recent photo, to Bryan, Chemist, Malmesbury, Wilts.

JUNIOR Assistant immediately; Dispensing, Counter and general Pharmacy routine. State age, experience, salary required, and references to "Chemist," 186 Lavender Hill, London, S.W.11.

JUNIOR Assistant for Dispensing and Light Retail; lady Assistant entertained. State experience and salary required (outdoors). H. J. Aubrey, 25 The Cross, Worcester.

JUNIOR, young, wanted immediately; good Dispenser, Counter-man and Window Dresser. Apply personally or by letter to Manager, Vincents, Cash Chemists, Walham Green, S.W.

LADY; qualified; used to Retail and Prescribing; easy hours; no Sunday duty; modern shop; two junior girls kept. Full particulars and salary to 91/124, Office of this Paper.

MALE Dispenser and Book-keeper wanted in a country town practice in Bedfordshire; 4-roomed house available; references essential. Apply 243/2, Office of this Paper.

MANAGER, qualified, required for high-class South-East Coast business; good living accommodation. Full particulars and photograph first letter. 244/32, Office of this Paper.

MANAGER; qualified; about 25; must have good all-round experience; abstainer preferred. Apply, with full particulars, to H. W. Herbert, Chemist, Egham, Surrey.

MANAGER; qualified; with experience in good-class business; must be a good Window-dresser and capable Salesman. Full particulars to 91/122, Office of this Paper.

MANAGER, qualified, wanted for Branch; not over 35 years of age; must possess recent good-class experience and be a first-rate Counterman; easy berth for suitable applicant. Full particulars of experience, age, etc., in first letter please, 245/39, Office of this Paper.

MANAGER, qualified, for middle- and working-class business; very good salary and commission to keep man; only applicants with irreproachable references and not over 50 years of age need apply. Kilburn district. Full particulars to 247/3, Office of this Paper.

MARSHALL & CO., 5 Pimlico Road, S.W.1, require the services of an unqualified Junior Assistant (male). Apply by letter, giving full particulars as to experience, references and salary required.

MESSRS. SOUTHONS, The City Chemists, have an opening for a young gentleman as Apprentice; son of Pharmacist preferred; no premium. Apply by letter to 5 Leadenhall Street, E.C.3.

PART-EVENING Assistant required with good Dispensing experience; married, to live in a five-roomed flat. Apply to Amoore & Co., 173 Sloane Street, S.W.

PERFUMERY.—Required, Lady Superintendent for Perfumery and Toilet Goods; good appearance and address; must have first-class West-End experience; age not over 35 years. Apply personally to the Staff Manager, Harrods, Ltd., 44 Hans Crescent, S.W.1.

PERMANENCY for unqualified Assistant, single, for good-class family and Dispensing Business; knowledge of Photo work an advantage; outdoor. Apply, stating salary required, also references, Mellor & Co. (Warwick), Ltd., Warwick.

QUALIFIED lady Dispenser required in a high-class Dispensing business near London on November 8; must have had good experience, be quick and accurate; knowledge of Bacteriology an advantage; one desiring permanency, preferred. Please send reference, salary required (outdoors), age, and, if possible, photograph to 243/10, Office of this Paper.

QUALIFIED Assistant wanted for country Agricultural business, East Coast; must be young and energetic; single preferred. Full particulars, age, salary, etc., with photo. 240/16, Office of this Paper.

QUALIFIED Man wanted shortly; one with Optical Diploma preferred; house provided for married man; one seeking a permanency. Apply, with full particulars, Walker, Pharmacist, Sutton Coldfield, near Birmingham.

QUALIFIED Manager required for good-class business in riverside town; must be good Prescriber and Dispenser, and have some knowledge of agricultural work. Apply, stating age, salary, experience, etc., to Mrs. Holme, Market Place, Wallingford. Applicants unanswered in 4 days declined.

QUALIFIED Lady Miner; London; £2 a week and live in; middle-class trade. 245/22, Office of this Paper.

REALLY smart and energetic Junior wanted at once. Send photo (returnable) and full particulars in first letter, Lansdale & Co., Queen Square, High Wycombe.

SENIOR Qualified Assistant, desirous of progress, is offered an opening as Manager in London suburb; experience in good modern business essential. Send full particulars of experience, with photo if possible, to 91/120, Office of this Paper.

SMART Unqualified Junior, male, young, for light Retail and Photographic Business, for Counter and Stock; knowledge of Photography; no D. & P. work. Give references and state salary expected. T. E. Hirst, Pharmacist, Slaithwaite, near Huddersfield.

THE PROSSER ROBERTS CO., Pharmaceutical Chemists, 13 Church Street, Camberwell, S.E., have vacancies for young qualified and unqualified male and female Assistants. Apply by letter in first instance, giving full particulars.

UNQUALIFIED Junior, lady or gentleman, required end of October; must be accurate Dispenser, good on Counter, and knowledge of Photography. Apply by letter, giving age, experience, salary, enclose photo to, Bradshaw, Chemist, Berkhamsted, Herts.

UNQUALIFIED Assistant, about 21; good Window-dresser, Photographic and Dispensing. Full particulars to Harris & Kenyon, Ltd., 175 High Road, Kilburn, N.W.6.

WANTED immediately, Part-time Dispenser for Tuesdays, Wednesdays and Thursdays from about 5 to 8 p.m. Loesby-Jones, Ph.C., 4 Thayer Street, London, W.1.

WANTED at once, Qualified Assistant (lady or gentleman). State experience and references. T. R. Milburn, Chemist, 147 Northumberland Street, Newcastle-on-Tyne.

WHOLESALE.

A NORTHERN Firm of Manufacturing Chemists require an Assistant Chemist, whose duties will be Analytical and supervision of the smaller manufacturing; must be a Pharmacist, and A.I.C. University Graduate preferred. Apply, giving full particulars, to 245/10, Office of this Paper.

LANCASHIRE House requires experienced man for General Steam Laboratory; one used to making concentrated mixtures for medical men in addition to ordinary galenicals preferred. Apply, stating age, experience, and wages required to 246/2, Office of this Paper.

LANCASHIRE.—Unqualified Young Man required by firm of Wholesale Chemists; preference will be given to one having knowledge of manufacture of Galenicals. Give full particulars of age, business experience and salary required in first letter; replies treated with absolute confidence. 247/34, Office of this Paper.

MANUFACTURERS require Representatives, with connections among Chemists, Hairdressers and Stores, to carry Powder Puffs as additional line; commission basis. 91/126, Office of this Paper.

E. MERCK, Manufacturing Chemist, DARMSTADT, GERMANY, invites applications from gentlemen or firms (not dealers) desirous of acting as his Sole Representative for the British Isles; applicants must be thoroughly versed in this line of business and hold undeniable references; they must further possess exceptional ability of salesmanship and advertising; one with previous similar experience preferred; first-class connection with the trade essential.

PHARMACIST.—A firm of Manufacturing Chemists have a vacancy for a Lady Pharmacist. State previous experience, salary required and enclose photograph, to be returned, to 91/119, Office of this Paper.

REPRESENTATIVES required, London and provinces, for an entirely new quick seller, retailing 5s.; no competition; enormous market; only gentlemen with proved connection and sales entertained; liberal commission terms, with progression. Write only and fully, "Rep," 4 Dollis Road, London, N.3.

SALES Manager.—Young man possessing ideas and personality required by established progressive private limited company to control Agency Department; Perfumery and Proprietary Goods; applicants must be prepared to invest £500 in 7½ per cent. cumulative preference shares; commencing salary £150 per annum, with share of profits. Write, stating particulars of age, education and experience, to 247/33, Office of this Paper.

TRAVELLER wanted to call on Doctors; South Coast. Letters only. Damancy & Co., Harrow, Middlesex.

WHOLESALE Patent Medicine House in the South of England requires experienced Clerk; commencing salary £24. Please mention, in strict confidence, age, particulars of previous situations, why relinquished, duties and other customary information. 246/20, Office of this Paper.

YOUNG lady, experienced Shorthand-Typist-Book-keeper, wanted for Wholesale Chemists' and Hairdressers' Sundries Office, West-End; chiefly toilet lines. Full particulars of experience, references, age, and salary required to 243/1, Office of this Paper.

YOUNG Man, with experience in Patent Warehouse; able to look out orders and must understand routine of Wholesale Trade. State age, experience and wages required. P.C.B., 51/19, Office of this Paper.

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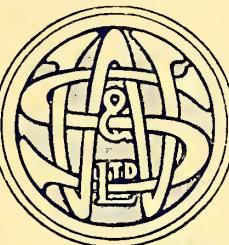
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